Ships Bag for MB/L ONEYHAMDA6077700

Container: TCLU1531421 1

SACO RG5550519 50747582.pdf 1

TCLU1531421.pdf 2

01616 MANIFEST 0916003.pdf 3

MDA6077700 seaway 20231202144802.pdf 9

HB/L: 81886597 15
TYP: Externes B/L . . . 15
ALM251203 HBL 30.pdf . . . 15

HB/L: ALM251154 16
TYP: B/L . . . 16
SACO Shipping Line Ltd. B/L ALM251154 ALM25115 . . . 16

HB/L: ALM251177 17
TYP: B/L . . . 17
SACO Shipping Line Ltd. B/L ALM251177 ALM25117 . . . 17

HB/L: ALM251193 19
TYP: Dangerous Goods Declaration . . . 19
ALM251193 DGD 15.pdf . . . 19
TYP: MSDS . . . 20
ALM251193 MSD 34.pdf . . . 20
TYP: B/L . . . 35
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TYP: Dangerous Goods Declaration . . . 37
'ALM251197 DGD 1.pdf' . . . 37
'ALM251197 DGD 1.pdf' . . . 40
TYP: MSDS . . . 43
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ALM251197 MSD 13.pdf . . . 149
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TYP: B/L . . . 239
SACO Shipping Line Ltd. B/L ALM251197 ALM25119 . . . 239

HB/L: ALM251202 **240**
TYP: B/L . . . 240
SACO Shipping Line Ltd. B/L ALM251202 ALM25120 . . . 240

HB/L: ALM251205 **241**
TYP: B/L . . . 241
SACO Shipping Line Ltd. B/L ALM251205 ALM25120 . . . 241

HB/L: ALM251213 **242**
TYP: Dangerous Goods Declaration . . . 242
'ALM251213 DGD 1.pdf' . . . 242
'ALM251213 DGD 1.pdf' . . . 243
TYP: MSDS . . . 244
'ALM251213 MSDS 1.pdf' . . . 244
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ALM251213 MSD 86.pdf . . . 313
ALM251213 MSD 87.pdf . . . 322
TYP: B/L . . . 330
SACO Shipping Line Ltd. B/L ALM251213 ALM25121 . . . 330

HB/L: ALM251215 **331**
TYP: B/L 331
SACO Shipping Line Ltd. B/L ALM251215 ALM25121 331

HB/L: ALM251219 **332**
TYP: B/L 332
SACO Shipping Line Ltd. B/L ALM251219 ALM25121 332

HB/L: ALM251220 **333**
TYP: B/L 333
SACO Shipping Line Ltd. B/L ALM251220 ALM25122 333

HB/L: ALM251222 **334**
TYP: B/L 334
SACO Shipping Line Ltd. B/L ALM251222 ALM25122 334

HB/L: ALM251230 **335**
TYP: B/L 335
SACO Shipping Line Ltd. B/L ALM251230 ALM25123 335

HB/L: ALM251231 **336**
TYP: B/L 336
SACO Shipping Line Ltd. B/L ALM251231 ALM25123 336

HB/L: ALM251232 **337**
TYP: B/L 337
SACO Shipping Line Ltd. B/L ALM251232 ALM25123 337

HB/L: ALM251234 **338**
TYP: B/L 338
SACO Shipping Line Ltd. B/L ALM251234 ALM25123 338

HB/L: ALM251244 **339**
TYP: MSDS 339
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TYP: B/L 341
SACO Shipping Line Ltd. B/L ALM251244 ALM25124 341

HB/L: ALM251248 **342**
TYP: B/L 342
SACO Shipping Line Ltd. B/L ALM251248 ALM25124 342

HB/L: ALM251250 **343**
TYP: B/L 343
SACO Shipping Line Ltd. B/L ALM251250 ALM25125 343

HB/L: ALM251260 **344**
TYP: Dangerous Goods Declaration 344
'ALM251260 DGD 1.pdf' 344
ALM251260 DGD 25.pdf 345
'ALM251260 DGD 1.pdf' 346
ALM251260 DGD 25.pdf 347
TYP: MSDS 348
'ALM251260 MSDS 1.pdf' 348
'ALM251260 MSDS 1.pdf' 369
TYP: B/L 390
SACO Shipping Line Ltd. B/L ALM251260 ALM25126 390

HB/L: ALM251264 **391**
TYP: B/L 391
SACO Shipping Line Ltd. B/L ALM251264 ALM25126 391

HB/L: ALM251274 **392**
TYP: B/L 392
SACO Shipping Line Ltd. B/L ALM251274 ALM25127 392

A Member of WorldWideAlliance®

saco

NVOCC Services worldwide

Bremen, 06. December 2023

SACO Shipping GmbH · Bürgermeister-Smidt-Str. 128 · 28195 Bremen

Interteam S.A. de C.V.
Servicios Int.
Calle Colima #114 Desp. 201, Colonia Roma,
06700 C.P.MEXICO D.F
MX MEXICO

RECHNUNG/INVOICE
EXPORT

lbr / lbr / lbr

CUSTOMER-Ref.: 27212230103

Leistungsdatum : 01.12.2023

INVOICE-No	INVOICE-Date	CUSTOMER-No	SACO-Ref.	B/L-Ref.	Your VAT-ID	R.O.E
5550519	06.12.2023	020896	3/12/BRE/52510	3/12/BRE/5251		0.9169

Vessel: **Destination:**

Online-Ref: **Delivery:**

Pieces	Gross KOS	Volumen CBM

SACO REF.: VESSEL: PORT: ETA: CONTAINER:
3/12/BRE/5251 TOKYO EXPRESS ALTAMIRA 16.12.2023 TCLU1531421

Pos.	Description	Rate	Amount	Tax
1	AS PER ATTACHED PL SHEET	2015.56 USD	2015.56	

NO VAT ON	VAT ON	TOTAL VAT	VAT	TOTAL AMOUNT USD
2015.56	0	0	19%	**2015.56**

SACO Shipping GmbH handelt bei Seetransporten einschließlich Vorlauf- und Nachlauftransporten ausschließlich als Agent von SACO Shipping Line Limited, Limassol/Zypern. SACO Shipping Line Limited Limassol arbeitet ausschließlich nach ihren jeweils gültigen Konnossements-Bedingungen, auch wenn kein Konnossement ausgestellt wurde. Diese Bedingungen können bei den jeweiligen Büros und/oder unter www.saco.de eingesehen werden.

Formular: Saco - EXPORT RECHNUNG - - 06.12.2023 09:02:13

amended on: 05.10.2023 by ECH

Mexico PL-Sheet 2023

vallid from October 1st 2023

SACO Ref.:	Vessel:	Port:	ETA:	Container:
3/12/BRE/5251	TOKYO EXPRESS	ALTAMIRA	16.12.2023	TCLU1531421

B/L	COLLECT	incl.Special charges	Doc fee	Unstuffing	Admin Fee	Transm.Fee	Port Transf	On Carriage	0,00 USD	Quote No.:
ALM251154										
ALM251177										
ALM251193										
ALM251197	194,17									
ALM251202										
81886597										
ALM251205										
ALM251213	93,05									
ALM251215	198,14									
ALM251219										
ALM251220										
ALM251222										
ALM251230										
ALM251231	30,00									
ALM251232										
ALM251234										
ALM251244										
ALM251248	122,04									
ALM251250	49,38									
ALM251260										
ALM251264										
ALM251274										
	686,78		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	

COLLECT FREIGHT TOTAL				686,78 USD	686,78 USD	debit to Interteam
RELEASE FEE				0,00 USD		
UNSTUFFING				0,00 USD		
ADMIN FEE				0,00 USD		
TRANSMISSION FEE				0,00 USD	0,00 USD	credit to Interteam
CREDIT FOR ON CARRIAGE				0,00 USD		
PORT TRANSFER				0,00 USD		
kickback as agreed USD 24,00 w/m from B/L	**date 01.10.2023**	FRT:	55,366	1.328,78 USD	1.328,78 USD	debit to Interteam
Hartrodt Kickback USD 4,50 w/m		FRT:		0,00 USD	0,00 USD	debit to Interteam
Quick Cargo Kickback USD 3,- w/m		FRT:		0,00 USD		
BDP / ED Forwarding Kickback USD 4,- w/m		FRT:		0,00 USD		
Linkin / Europartner Kickback USD 4,-w/m		FRT:		0,00 USD		
DHL compensation USD 20,-w/m		FRT:		0,00 USD	0,00 USD	credit to Interteam

TOTAL AMOUNT **2.015,56 USD** **CREDIT OR DEBIT TO INTERTAEM**

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
81886597	VESTAS FO: 0032571416	2	PACKAGES	S.T.C. PARTS FOR WIND TURBINES HS CODE: 29053100 INV: 9990473751	1124.000	2.001
ALM251154	JOHNSON CONTROLS ENTERPRISES MEXICO S DE RL DE CV RFC: JCA100604EF4 DAVID ALFARO SIQUEIROS 104, ZONA VALLE ORIENTE, SAN PEDRO GARZA GARCIA 66278 NUEVO LEON	2	PACKAGES	SUPPLY OF COLD ROLLS HS-CODE: 84553039	3086.000	2.253
ALM251177	SYMRISE S DE RL DE CV AVENIDA REPUBLICA MEXICANA NO. 200 COL GARZA CANTU 66480 SAN NICOLAS DE LOS GRAZA N.L. C.P. MEXICO 4500885198 4500882798 HRF 74216 PO 4500882798 HRF 74852 PO 4500882798 HRF 75489 PO 4500885198	1	PALLET	1 STEEL DRUM LAVENDER 40/42 W/O SYNTH MYRCENE 100509 HS CODE: 33029090 1 STEEL DRUM YLANG YLANG III OIL NAT. 100236 ORIGIN : COMORES HS CODE: 33012911 1 STEEL DRUM LAVANDIN OIL ESPIEUR CENSO 103169 HS CODE: 33012949	138.200	0.768

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM251193	SYMRISE S DE R.L. DE C.V. SAN NICOLAS DE LOS GARZA, N.L. VIA TAMPICO 33400552/01 4500883491 33400552/01 4500883491	2	PALLET	1 PALLET 434,100 16 PLASTIC JERRICANS UN 3H1OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.) 1 PALLET 115,400 4 PLASTIC JERRICANS UN 3H1 OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.)	549.500	1.097
ALM251197	A000409681 NBHX TRIM MEXICO S DE RL DE CV AGUASCALIENTES PLANT	2	PALLETS	PAINT UN 1263/CLASS 3/PG II UN 1263/CLASS 3/PG III	1123.400	3.082
ALM251202	NOMA PO VW PROJECT PORT ALTAMIRA	1	CASE	LAMINATES HS CODE: 392190	1116.000	2.127

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM251205	POWERTECNO ENERGIA MEXICANA, S. DE R.L. DE C.V.	2	PACKAGES	SISTEMA DE AEROCONDENSADOR Y ENFRIAMIENTO, COMPLETO DESENSAMBLADO CON TODAS SUS PARTES Y ACCESORIOS PARA SU CORRECTO FUNCIONAMIENTO PO 70240068020 SHIPPING N.O: 70240-OFS-0153-GERM HS-CODE: 73045982	601.220	0.522
ALM251213	00707-697/0000 - PO 40160758/AB175 647 PREH MEXICO S.A D E C.V 814 CRIO PARQUE I NDUSTRIAL KALOS CFS ALTAMIRA NOT STACKABLE	2	PACKAGES	PAINT HS CODE 32089091 UN 1263, IMO 3,II 7 DRUMS RESIN SOLUTION HS CODE 32089091 UN 1866, IMO 3 III 2 DRUMS	230.000	1.133
ALM251215	MONDI GRUPO ANTOLIN SILAO	4	PALLETS	PAPER COATED POLYETHYLENE AS PER INVOICE: 510081539 HS-CODE: 481159	3098.000	6.192
ALM251219	ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2 25900 RAMOS ARIZPE, COAH., MEXICO	1	CASE	TOOLS HS-CODES: 82055980, 82090020, 82074030, 84669400, 84569110, 82022000, 85043200, 84249080, 82041100	220.000	1.229

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM251220	ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2 25900 RAMOS ARIZPE, COAH., MEXICO	1	CASE	PIPES AND MATERIAL HS-CODES: 73041100, 73044100, 73181900, 73079210, 73079290, 84249080, 85444290, 85444995	1100.000	2.903
ALM251222	VKI 10016856 EX. NEUMANN ALUMINIUM, ROTTENBURG MOTHERSON TECNO PRECISION MEXIKO S.A. MX	1	PALLET	PUMP HOUSING HS CODE: 84139100	346.640	0.634
ALM251230	ORDER: 107579 INVOICE: 13186511	20	PALLETS	REAR CAP HS CODE: 87089910	5670.240	13.440
ALM251231	ZKW MEXICO DN 23111642	1	PACKAGES	SCREWS AND BOLTS INVOICE:23111663 HS-CODE:731815 FREIGHT COLLECT	116.000	0.079
ALM251232	PO LIGHTING MEXICO S. DE R.L. DE C.V. 608 AVENIDA PARQUE INDUSTRIAL MONTERREY APODACA 666 03 NUEVO LEON MX	1	PALLET	MOTOR CAR ACCESSORIES HS-CODE: 701400	22.000	0.091

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM251234	ECC CONVERSION CENTER, SA DE CV CARRETERA A LAREDO NO. 1000 INT. 3-A COL. MOISES SAENZ 66613 APODACA, NUEVO LEON MEXICO	3	CASES	LIGNOSTONE -SQUARE NUTS HS CODE: 442199	783.000	2.976
ALM251244	23017616, 23017640 GONTOOLS, SA DE CV AVE. ADOLFO RUIZ CORTINEZ # 2933 OTE COL. COYOACAN MX-C.P. 64510 MONTERREY, N.L.	2	CARTONS	PACKED ON 2 PALLETS METALBAND SAW BLADES HS CODE: 82022000	976.000	1.816
ALM251248	MARELLI MEXICO DELIVERY NOTE: 83051892	3	PACKAGES	S.T.C THROTTLE POSITION SENSOR IRT3 6PX INV: 98022454 HS CODE: 903180 INCOTERM: EXW KAUNAS	350.000	4.068
ALM251250	MAGNA ELECTRONICS	2	PALLETS	S.T.C. FERRITE CORES INV: 296696035, 296696002 HS-CODE: 850490 FREIGHT COLLECT INCOTERM: FCA SKIERNIEWICE	317.000	1.646

Manifest

Container-No.: TCLU1531421 40' HIGH CUBE CONTAINER Seal-No.: WWA010171086
Vessel: SAC0695 / TOKYO EXPRESS
ETS:
Master-B/L.: ONEYHAMDA6077700

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM251260	LIEBHERR MONTERRE Y S.DE R.L. DE C. V CARRETERA MONTERR EY - GARCIA KM.11 MX-66000 GARCIA, N.L.	11	PACKAGES	WHEEL LOADER PARTS UN1263, CLASS 3	752.300	2.554
ALM251264	HYSTER-YALE MEXICO DELIVERY ADDRESS: ALTAMIRA, TAMPS PORT HYG MEXICO Y/O OSCAR SERAFIN PEREZ COL. UNIDAD NACIONAL TMS 89410 ALTAMIRA MEXICO	6	PALLETS	PARTS FOR ELECTRIC FORK LIFTS HS CODE 84312000	2878.000	3.124
ALM251274	KIEFER WERKZEUGBAU GMBH MARKS: GRUPO REYMA DEL SURESTE, S.A. DE C.	4	PACKAGES	SPARE PUNCHES HS CODE: 82073090	408.000	1.631

Total	Quantity	Grossweight	Measurement
	74	**25.005.500**	**55.366**

OCEAN NETWORK EXPRESS

ORIGINAL NON NEGOTIABLE

SEA WAYBILL

SHIPPER/EXPORTER
SACO SHIPPING GMBH
AS AGENT OF SACO SHIPPING LINE
LIMITED WOLLKAEMMEREISTR. 1
D-21107 HAMBURG / GERMANY SH>

BOOKING NO. HAMDA6077700

SEA WAYBILL NO. ONEYHAMDA6077700

EXPORT REFERENCES(for the Merchant's and/or Carrier's reference only. See back clause 8. (4).)
3/12/BRE/5251

CONSIGNEE
INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO CN>

FORWARDING AGENT-REFERENCES
FMC NO.

NOTIFY PARTY (It is agreed that no responsibility shall be attached to the Carrier or its Agents for failure to notify)
INTERTEAM, S.A. DE C.V.
TAX ID IS: INT961206ES7

RECEIVED by the Carrier in apparent good order and condition (unless otherwise stated herein) the total number or quantity of Containers or other packages or units indicated in the box entitled "Carrier's Receipt", to be carried subject to all the terms and conditions hereof from the Place of Receipt or Port of Loading to the Port of Discharge or Place of Delivery, as applicable. Delivery of the Goods to the Carrier for Carriage hereunder constitutes acceptance by the Merchant (as defined hereinafter) (i) of all the terms and conditions, whether printed, stamped or otherwise incorporated on this side and on the reverse side of this Bill of lading and the terms and conditions of the Carrier's applicable tariff(s) as if they were all signed by the Merchant, and (ii) that any prior representations and/or agreements for or in connection with Carriage of the Goods are superseded by this Bill of Lading. If this is a negotiable (To Order/of) Bill of Lading, one original Bill of Lading, duly endorsed must be surrendered by the Merchant to the Carrier (together with any outstanding Freight) in exchange for the Goods or a Delivery Order or the pin codes for any applicable Electronic Release System. If this is a non-negotiable (straight) Bill of Lading, or where issued as a Sea Waybill, the Carrier shall deliver the Goods or issue a Delivery Order or the pin codes for any applicable Electronic Release System (after payment of outstanding Freight) to the named consignee against the surrender of one original Bill of Lading, or in the case of a Sea Waybill, on production of such reasonable proof of identify as may be required by the Carrier, or in accordance with the national law at the Port of Discharge or Place of Delivery as applicable. IN WITNESS WHEREOF the Carrier or their Agent has signed the number of Bills of Lading stated at the top, all of this tenor and date, and whenever one original Bill of Lading has been surrendered all other Bills of Lading shall be void.

PRE-CARRIAGE BY	PLACE OF RECEIPT	
	HAMBURG	
OCEAN VESSEL VOYAGE NO. FLAG	**PORT OF LOADING**	**FINAL DESTINATION**(for the Merchant's reference only)
TOKYO EXPRESS 006W	HAMBURG	ALTAMIRA
PORT OF DISCHARGE	**PLACE OF DELIVERY**	**TYPE OF MOVEMENT**(IF MIXED, USE DESCRIPTION OF PACKAGES AND GOODS FIELD)
ALTAMIRA	ALTAMIRA	FCL / FCL CY / CY

(CHECK "HM" COLUMN IF HAZARDOUS MATERIAL) **PARTICULARS DECLARED BY SHIPPER BUT NOT ACKNOWLEDGED BY THE CARRIER**

CNTR. NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	GROSS MEASUREMENT
TCLU1531421 / WWA010171086			/ 74 PACKAGES /FCL / FCL/40HQ/25005.500KGS/55.366M3		
JOHNSON CONTROLS ENTERPRISES MEXICO S DE RL DE CV RFC: JCA100604EF4 DAVID ALFARO SIQUEIROS 104,	2 PACKAGES	H	SUPPLY OF COLD ROLLS HS-CODE: 84553039	3086.000KGS	2.253CBM

** TO BE CONTINUED ON ATTACHED LIST **

Declared Cargo Value US $ _____ . If Merchant enters a value, Carrier's limitation of liability shall not apply and the ad valorem rate will be charged.

FREIGHT & CHARGES PAYABLE AT / BY:	SERVICE CONTRACT NO.	DOC FORM NO.	COMMODITY CODE	EXCHANGE RATE
HAMBURG, HH MEXICO CITY	THAMN00236A			

CODE	TARIFF ITEM	FREIGHTED AS	RATE	PREPAID	COLLECT

[0] ORIGINAL BILLS(S) HAVE BEEN SIGNED.

DATE CARGO RECEIVED

DATE LADEN ON BOARD
01 DEC 2023

PLACE OF BILL(S) ISSUE
HAMBURG

DATED
01 DEC 2023

The printed terms and conditions on this Bill are available at its website at www.one-line.com

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH
, as agent for and on behalf of

Ocean Network Express Pte. Ltd. (ONE), AS CARRIER

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: TOKYO EXPRESS 006W B/L NO.: ONEYHAMDA6077700

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
ZONA VALLE ORIENTE, SAN PEDRO GARZA GARCIA 66278 NUEVO LEON					
SYMRISE S DE RL DE CV AVENIDA REPUBLICA MEXICANA NO. 200 COL GARZA CANTU 66480 SAN NICOLAS DE LOS GRAZA N.L. C.P. MEXICO 4500885198 4500882798 HRF 74216 PO 4500882798 HRF 74852 PO 4500882798 HRF 75489 PO 4500885198	1 PACKAGE		1 STEEL DRUM LAVENDER 40/42 W/O SYNTH MYRCENE 100509 HS CODE: 33029090 1 STEEL DRUM YLANG YLANG III OIL NAT. 100236 ORIGIN : COMORES HS CODE: 33012911 1 STEEL DRUM LAVANDIN OIL ESPIEUR CENSO 103169 HS CODE: 33012949	138.200KGS	0.768CBM
SYMRISE S DE R.L. DE C.V. SAN NICOLAS DE LOS GARZA, N.L. VIA TAMPICO 33400552/01 4500883491 33400552/01 4500883491	2 PACKAGES		1 PALLET 434,100 16 PLASTIC JERRICANS UN 3H1OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.) 1 PALLET 115,400 4 PLASTIC JERRICANS UN 3H1 OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.) IMO 3 UN 1197 IMO 3 UN 1197	549.500KGS	1.097CBM
A000409681 NBHX TRIM MEXICO S DE RL DE CV AGUASCALIENTES PLANT	2 PACKAGES		PAINT UN 1263/CLASS 3/PG II UN 1263/CLASS 3/PG III IMO 3 UN 1263 IMO 3 UN 1263 IMO 3 UN 1263 IMO 3UN 1263 IMO 3 UN 1263 IMO 3 UN 1263	1123.400KGS	3.082CBM
NOMA PO VW PROJECT	1 PACKAGE		LAMINATES HS CODE: 392190	1116.000KGS	2.127CBM

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH

, as agent for and on behalf of

Ocean Network Express Pte. Ltd.
(ONE), AS CARRIER

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: TOKYO EXPRESS 006W B/L NO.: ONEYHAMDA6077700

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
PORT ALTAMIRA					
VESTAS FO: 0032571416	2 PACKAGES		S.T.C. PARTS FOR WIND TURBINES HS CODE: 29053100 INV: 9990473751	1124.000KGS	2.001CBM
POWERTECNO ENERGIA MEXICANA, S. DE R.L. DE C.V.	2 PACKAGES		SISTEMA DE AEROCONDENSADOR Y ENFRIAMIENTO, COMPLETO DESENSAMBLADO CON TODAS SUS PARTES Y ACCESORIOS PARA SU CORRECTO FUNCIONAMIENTO PO 70240068020 SHIPPING N.O: 70240-OFS-0153-GERMANY HS-CODE: 73045982	601.220KGS	0.522CBM
00707-697/0000 - PO 40160758/AB175 647 PREH MEXICO S.A D E C.V 814 CRIO PARQUE I NDUSTRIAL KALOS CFS ALTAMIRA NOT STACKABLE	2 PACKAGES		PAINT HS CODE 32089091 UN 1263, IMO 3,II 7 DRUMS RESIN SOLUTION HS CODE 32089091 UN 1866, IMO 3 III 2 DRUMS IMO 3 UN 1263 IMO 3 UN 1263 IMO 3 UN 1866	230.000KGS	1.133CBM
MONDI GRUPO ANTOLIN SILAO	4 PACKAGES		PAPER COATED POLYETHYLENE AS PER INVOICE: 510081539 HS-CODE: 481159	3098.000KGS	6.192CBM
ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2 25900 RAMOS ARIZPE, COAH., MEXICO	1 PACKAGE		TOOLS HS-CODES: 82055980, 82090020, 82074030, 84669400, 84569110, 82022000, 85043200, 84249080, 82041100	220.000KGS	1.229CBM
ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2	1 PACKAGE		PIPES AND MATERIAL HS-CODES: 73041100, 73044100, 73181900, 73079210, 73079290, 84249080, 85444290, 85444995	1100.000KGS	2.903CBM

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH

, as agent for and on behalf of

Ocean Network Express Pte. Ltd.
(ONE), AS CARRIER

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: TOKYO EXPRESS 006W B/L NO.: ONEYHAMDA6077700

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
25900 RAMOS ARIZPE, COAH., MEXICO					
VKI 10016856 EX. NEUMANN ALUMINIUM, ROTTENBURG MOTHERSON TECNO PRECISION MEXIKO S.A. MX	1 PACKAGE		PUMP HOUSING HS CODE: 84139100	346.640KGS	0.634CBM
ORDER: 107579 INVOICE: 12544126	20 PACKAGES		REAR CAP HS CODE: 87089910	5670.240KGS	13.440CBM
ZKW MEXICO DN 23111642	1 PACKAGE		SCREWS AND BOLTS INVOICE:23111663 HS-CODE:731815	116.000KGS	0.079CBM
PO LIGHTING MEXICO S. DE R.L. DE C.V. 608 AVENIDA PARQUE INDUSTRIAL MONTERREY APODACA 666 03 NUEVO LEON MX	1 PACKAGE		MOTOR CAR ACCESSORIES HS-CODE: 701400	22.000KGS	0.091CBM
ECC CONVERSION CENTER, SA DE CV CARRETERA A LAREDO NO. 1000 INT. 3-A COL. MOISES SAENZ 66613 APODACA, NUEVO LEON MEXICO	3 PACKAGES		LIGNOSTONE -SQUARE NUTS HS CODE: 442199	783.000KGS	2.976CBM
23017616, 23017640 GONTOOLS, SA DE CV AVE. ADOLFO RUIZ CORTINEZ # 2933 OTE COL. COYOACAN MX-C.P. 64510 MONTERREY, N.L.	2 PACKAGES		PACKED ON 2 PALLETS METALBAND SAW BLADES HS CODE: 82022000	976.000KGS	1.816CBM

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH

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Ocean Network Express Pte. Ltd.
(ONE), AS CARRIER

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: TOKYO EXPRESS 006W B/L NO.: ONEYHAMDA6077700

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
MARELLI MEXICO DELIVERY NOTE: 83051892	3 PACKAGES		S.T.C THROTTLE POSITION SENSOR IRT3 6PX INV: 98022454 HS CODE: 903180 INCOTERM: EXW KAUNAS	350.000KGS	4.068CBM
MAGNA ELECTRONICS	2 PACKAGES		S.T.C. FERRITE CORES INV: 296696035, 296696002 HS-CODE: 850490 INCOTERM: FCA SKIERNIEWICE	317.000KGS	1.646CBM
LIEBHERR MONTERRE Y S.DE R.L. DE C. V CARRETERA MONTERR EY - GARCIA KM.11 MX-66000 GARCIA, N.L.	11 PACKAGES		WHEEL LOADER PARTS UN1263, CLASS 3	752.300KGS	2.554CBM
HYSTER-YALE MEXICO DELIVERY ADDRESS: ALTAMIRA, TAMPS PORT HYG MEXICO Y/O OSCAR SERAFIN PEREZ COL. UNIDAD NACIONAL TMS 89410 ALTAMIRA MEXICO	6 PACKAGES		PARTS FOR ELECTRIC FORK LIFTS HS CODE 84312000	2878.000KGS	3.124CBM
KIEFER WERKZEUGBAU GMBH MARKS: GRUPO REYMA DEL SURESTE, S.A. DE C.	4 PACKAGES		SPARE PUNCHES HS CODE: 82073090 SH> TAX-ID. DE-118597456 CN> D.F. TEL:005255146915, FAX:005252087989 TAX ID IS: INT961206ES7	408.000KGS	1.631CBM

OCEAN FREIGHT PREPAID
SHIPPED ON BOARD
SHIPPER'S LOAD, STOW AND COUNT

INLAND TRANSPORTATION IN MEXICO IS CARRIED OUT ACCORDING TO LOCAL REGULATIONS. THE INFORMATION IN THE MASTER BILL OF LADING CAN BE AMENDED SUBJECT TO CUSTOMS REVIEW AND PENALIZATION IF THE BILL OF LADING IS ALLOWED TO AMEND, THE REQUESTER OF THE AMENDMENT SHALL BE RESPONSIBLE FOR SUCH CUSTOMS PENALTY AND INDEMNIFY THE

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH

, as agent for and on behalf of

Ocean Network Express Pte. Ltd.
(ONE), AS CARRIER

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: TOKYO EXPRESS 006W B/L NO.: ONEYHAMDA6077700

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT

CARRIE AND ITS AGENTS AGAINST ANY CONSEQUENCES WHATSOEVER IN RELATION TO SUCH AMENDMENT.

ALM251154
ALM251177
ALM251193
ALM251197
ALM251202
81886597
ALM251205
ALM251213
ALM251215
ALM251219
ALM251220
ALM251222
ALM251230
ALM251231
ALM251232
ALM251234
ALM251244
ALM251248
ALM251250
ALM251260
ALM251264
ALM251274

AGENT AT DESTINATION:
ONE OCEAN NETWORK EXPRESS SHIPPING MEXICO,
S.A. DE C.V. CIUDAD DE MEXICO
PASEO DE LA REFORMA 180, PISO 19,
COLONIA JUAREZ, DEL. CUAUHTEMOC,
CIUDAD DE MEXICO, C.P. 06600
TEL: 5547808200

SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH

, as agent for and on behalf of

Ocean Network Express Pte. Ltd.
(ONE), AS CARRIER

www.shipco.com

SHIPCO TRANSPORT
Draft

A Member of WorldWideAlliance®

SHIPPER/EXPORTER (COMPLETE NAME AND ADDRESS)
DAMCO DENMARK A/S
BREDSKIFTE ALLE 13
8210 AARHUS
DENMARK
LINE.B@LNS.MAERSK.COM

BOOKING NO. 81886597

BILL OF LADING NO. 81886597

EXPORT REFERENCES
S23SAAR0016462_LCL

CONSIGNEE (NOT NEGOTIABLE UNLESS CONSIGNED TO ORDER)
DAMCO LOGISTICS MEXICO SA DE CV
BOULEVARD MANUEL AVILA CAMACHO 32,
PISO 21, LOMAS DE CHAPULTEPEC,
MIGUEL HIDALGO, III SECCION,
CP. 11000 RFC: DLM000704FD6

FORWARDING AGENT, F.M.C. NO
DAMCO DENMARK A/S
31B SOMMERVEJ
8000 AARHUS C DENMARK

POINT AND COUNTRY OF ORIGIN OF GOODS

NOTIFY PARTY (COMPLETE NAME AND ADDRESS)
SAME AS CONSIGNEE

FOR DELIVERY PLEASE APPLY TO
INTERTEAM S.A.DE C.V.
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P.
06700 MEXICO D.F. ME MEXICO
PHONE: 0052-551-469-15

PRE-CARRIAGE BY*	PLACE OF RECEIPT BY PRE-CARRIER*	TRANSSHIPMENT PORT
	AARHUS	
EXPORT CARRIER (VESSEL/VOY/FLAG)	**PORT OF LOADING**	**LOADING PIER/TERMINAL**
ONE TRITON 103W	HAMBURG	DOOR / CFS
PORT OF DISCHARGE	**PLACE OF DELIVERY BY ON CARRIER***	**NUMBER OF ORIGINALS**
ALTAMIRA	ALTAMIRA	0/EXPRESS

PARTICULARS FURNISHED BY SHIPPER

MARKS & NOS/CONTAINER NOS	NO. OF PKGS	DESCRIPTION OF PACKAGES AND GOODS	GROSS WEIGHT	MEASUREMENT
VESTAS FO: 0032571416	2	PACKAGES S.T.C. PARTS FOR WIND TURBINES HS CODE: 29053100 INV: 9990473751 FREIGHT PREPAID	2477.996Lbs 1124.000Kgs	70.665Cbf 2.001Cbm
			Total: 2477.996Lbs 1124.000Kgs	70.665Cbf 2.001Cbm

For notification purpose only

SHIPPERS DECLARED VALUE $
SUBJECT TO EXTRA FREIGHT AS PER TARIFF AND CLAUSE 8 (3) OF THIS B/L

FREIGHT & CHARGES	BASIS	RATE	PREPAID	COLLECT
			TOTAL	TOTAL

RECEIVED by Carrier, so far as can be reasonably ascertained, in external apparent good order and condition (unless otherwise stated herein) the Goods as specified above for carriage from the Place of Receipt or Port of Loading to the Port of Discharge or Place of Delivery, whichever is applicable.**Notwithstanding any local customs or privileges to the contrary, Merchant agrees on acceptance of contract or acceptance or notice of this Bill to be bound, and that the Goods and Services as evidenced herein are subject to, all terms of the Bill including but not limited to Defences (as defined), indemnities, liberties and the law & jurisdiction provisions hereof whether appearing on the front or reverse or whether printed or stamped or otherwise incorporated herein and in the Carrier's Tariff, as if all signed by the Merchant.**Above particulars of the Goods and address details are as provided and as declared by Merchant and are stated without warranty, liability or responsibility as to correctness by Carrier. Where the Bill is non-negotiable and unless Merchant gives written notice of and Carrier has given written agreement to the contrary prior to Carrier's acceptance of the Goods, or if this is an Express Bill, then Carrier may give delivery of the Goods to the named Merchant in the Consignee's box above (subject to payment of outstanding Freight and Charges), upon reasonable proof of identity and without the surrendering of any Original Bill. Where the Bill is negotiable (To Order / of) in accordance with the terms of this Bill, one original Bill of Lading, duly endorsed, must be surrendered by the Merchant to the Carrier (together with payment of outstanding Freight and Charges) in exchange for the Goods or a Delivery Order. IN WITNESS WHEREOF the Carrier or their Agent has signed the number of Bills of Lading stated above, all of this tenor and date, and wherever as required by this Bill one original Bill of Lading has been surrendered all other Bills of Lading shall be void.

DATED AT COPENHAGEN ON DEC 01, 2023

BY **SHIPCO TRANSPORT. AS CARRIER**

DRAFT

Shipper

GEBRUDER WEISS GMBH
FAULENSTRASSE 2-12
28195 BREMEN / GERMANY
TAX ID:DE217767729

B/L No.
ALM251154

SACO SHIPPING LINE LTD

Consigned to order of

KENSA LOGISTICS
MEXICO, SA DE CV
PISO 1, OFICINA "A"
AVIENDA PRESIDENTE
MASARYK NO. 219
RFC: KLM180911HX3

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

3/12/BRE/525101

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE
MEXICO CITY COL.
POLANCO V SECCION 11560
TEL: +52 442 429 0386
EMAIL: MX.PTABOADA@KENSALOGISTICS.COM

Copy

Place of receipt

BREMEN CFS

Ocean vessel

TOKYO EXPRESS

Port of loading

HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
JOHNSON CONTROLS ENTERPRISES MEXICO S DE RL DE CV RFC: JCA100604EF4 DAVID ALFARO SIQUEIROS 104, ZONA VALLE ORIENTE, SAN PEDRO GARZA GARCIA 66278 NUEVO LEON	2 PACKAGES	SUPPLY OF COLD ROLLS HS-CODE: 84553039		3086,000	2,253

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**2 PACKAGES**	**3086,000 KGS**	**2,253 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

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Shipper

LEXZAU, SCHARBAU GMBH & CO. KG
KAP-HORN-STR. 18,
28237 BREMEN, GERMANY
TAX ID: DE 114624125

B/L No.
ALM251177

SACO SHIPPING LINE LTD

Consigned to order of

LESCHACO MEXICANA,S.A. DE C.V.
BLVD. MANUEL AVILA CAMACHO
NO. 88-PISO 8
COL. LOMAS DE CHAPULTEPEC
11000 MEXICO, D.F., MEXICO
TEL.: +52(55)59550000
RFC: LME980116R15

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525102

Notify Party and address

LESCHACO MEXICANA,S.A. DE C.V.
BLVD. MANUEL AVILA CAMACHO
NO. 88-PISO 8
COL. LOMAS DE CHAPULTEPEC
11000 MEXICO, D.F., MEXICO
TEL.: +52(55)59550000

Copy

	Place of receipt
	CFS BREMEN
Ocean vessel	**Port of loading**
TOKYO EXPRESS	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	CFS ALTAMIRA	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
		CARGO DETAILS AS PER ATTACHED STATEMENT			

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

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Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
SYMRISE S DE RL DE CV AVENIDA REPUBLICA MEXICANA NO. 200 COL GARZA CANTU 66480 SAN NICOLAS DE LOS GRAZA N.L. C.P. MEXICO 4500885198 4500882798 HRF 74216 PO 4500882798 HRF 74852 PO 4500882798 HRF 75489 PO 4500885198	1 PALLET	1 STEEL DRUM LAVENDER 40/42 W/O SYNTH MYRCENE 100509 HS CODE: 33029090 1 STEEL DRUM YLANG YLANG III OIL NAT. 100236 ORIGIN : COMORES HS CODE: 33012911 1 STEEL DRUM LAVANDIN OIL ESPIEUR CENSO 103169 HS CODE: 33012949		138,200	0,768
STOWED INTO CONTAINER NO.: TCLU1531421			SEAL : WWA010171086		
TOTAL	**1 PALLET**			**138,200 KGS**	**0,768 CBM**

ALM251193_15_1/1

MULTI MODAL DANGEROUS GOODS FORM

This form may be used as a dangerous goods declaration as it meets the requirements of SOLAS 74, Chapter VII, regulation 4;

MARPOL 73/78, Annex III, regulation 4

Shipper/Consignor/Sender Symrise AG
Muehlenfeldstrasse 1
37603 Holzminden
Germany

Page 1 **of** 1 **Pages**

Freight Forwarder's reference 231113170371

Carrier Saco Shipping Line, Limassol

Consignee SYMRISE S DE RL DE CV
Y/O AGENTE ADUANAL DE AMERICANA
(SYM-750430-R87)
ALTAMIRA TAMPICO
GUADALUPE ALONSO
AV. RIO TAMESI KM 0+700

Vessel Dimitra C (026W)

Port of loading
Hamburg

Port of discharge
Altamira

CONTAINER/VEHICLE PACKING CERTIFICATE

I hereby declare that the goods described below have been packed/loaded into the container/vehicle identified below in accordance with the applicable provisions.
MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING

Name/status, company

Place and Date:

Signature of packer

SHIPPER'S DECLARATION

I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.

Name/status, company
Lexzau, Scharbau on behalf of Symrise, Holzminden
Place and Date: Hamburg / Bremen 13.11.2023

Signature on behalf of shipper Thomas Liberoudis / Timo Glaubke

No.	Number & kind of packages	Description of goods	Gross mass
1)	1 one-way pallet = 16 plastic jerricans UN 3H1	pallet weight: 12,500 kg Gross weight: UN 1197 EXTRACTS, LIQUID, 3, II, (+22,0°C c.c.), EmS: F-E,S-D Emergency Contact: Symrise AG via GBK/Infotrac ID 101844 24-hours no. Europe: GBK +49-6132-9829021 toll free: Infotrac +1-800-535-5053 Intl.: Infotrac +1-352-323-3500 Cargo gross/net weight: 421,600kg / 400,000kg	421,600 kg
2)	1 pallet = 4 plastic jerricans UN 3H1	pallet weight: 10,000 kg Gross weight: UN 1197 EXTRACTS, LIQUID, 3, II, (+22,0°C c.c.), EmS: F-E,S-D Emergency Contact: Symrise AG via GBK/Infotrac ID 101844 24-hours no. Europe: GBK +49-6132-9829021 toll free: Infotrac +1-800-535-5053 Intl.: Infotrac +1-352-323-3500 Cargo gross/net weight: 105,400kg / 100,000kg	105,400 kg

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

OAKWOOD DISTILLATE/EXTRACT AO (WD)

Version	Revision Date:	SDS Number:	Date of last issue: 04.11.2021
13.1	29.12.2022	317041	Date of first issue: 05.04.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : OAKWOOD DISTILLATE/EXTRACT AO (WD)

Product code : 317041

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Flavor mix

1.3 Details of the supplier of the safety data sheet

Company : Symrise AG
Mühlenfeldstrasse 1
37603 Holzminden

Telephone : +495531900

Telefax : +495531901649

E-mail address of person responsible for the SDS : sds@symrise.com

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 101844: +49(6132)9829021

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethanol; ethyl alcohol	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 --- specific concentration limit Eye Dam. 2 50 %	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.
Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap-

plication area.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 3, Flammable liquids

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Flavor mix

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethanol; ethyl alcohol	64-17-5	MAK	200 ppm 380 mg/m3	DFG
		AGW	200 ppm 380 mg/m3	DE TRGS 900

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	Not required; except in case of aerosol formation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	clear liquid
Colour	:	colorless
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	Vapours may form explosive mixtures with air.
Lower explosion limit / Lower flammability limit	:	Vapours may form explosive mixtures with air.
Flash point	:	22 °C
Decomposition temperature	:	not determined
pH	:	not determined
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined

Solubility(ies)

Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	28 kPa (50 °C) calculated
Relative density	:	0,9080 - 0,9280 (20 °C) relation to density of water at 4°C
Bulk density	:	Not applicable
Relative vapour density	:	not determined

9.2 Other information

Explosives	:	Due to its structural properties, the product is not classified as explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-ignition	:	The substance or mixture is not classified as self heating.
Evaporation rate	:	Not applicable
Molecular weight	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid	:	No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

ethanol; ethyl alcohol:

Acute oral toxicity	:	LD50 Oral (Rat, male and female): 10.470 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): 117 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 GLP: no
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 20.000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Components:

ethanol; ethyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes
Concentration	:	100 %

Serious eye damage/eye irritation

Not classified based on available information.

Components:

ethanol; ethyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Eye irritation
Concentration	:	100 %

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

ethanol; ethyl alcohol:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	No sensitizing effect.
GLP	:	no

Germ cell mutagenicity

Not classified based on available information.

Components:

ethanol; ethyl alcohol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

ethanol; ethyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l
Exposure time: 96 h
Test Type: flow-through test

NOEC (Danio rerio (zebra fish)): 1.000 mg/l
Exposure time: 120 h
Test Type: semi-static test
Method: OECD Test Guideline 212

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia): 5.012 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 675 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (Activated sludge): > 1.000 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD 209

12.2 Persistence and degradability

Components:

ethanol; ethyl alcohol:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 5 d
Method: OECD 301D

12.3 Bioaccumulative potential

Components:

ethanol; ethyl alcohol:

Partition coefficient: n- : log Pow: -0,32

octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1197

RID : UN 1197

IMDG : UN 1197

IATA : UN 1197

14.2 UN proper shipping name

ADR	:	EXTRACTS, LIQUID
RID	:	EXTRACTS, LIQUID
IMDG	:	EXTRACTS, LIQUID
IATA	:	Extracts, liquid

14.3 Transport hazard class(es)

ADR	:	3
RID	:	3
IMDG	:	3
IATA	:	3

14.4 Packing group

ADR

Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3
Tunnel restriction code	:	(D/E)
Remarks	:	Special Provision 640D

RID

Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3
Remarks	:	Special Provision 640D

IMDG

Packing group	:	II
Labels	:	3
EmS Code	:	F-E, S-D

IATA (Cargo)

Packing instruction (cargo aircraft)	:	364
Packing instruction (LQ)	:	Y341
Packing group	:	II
Labels	:	Flammable Liquid

IATA (Passenger)

Packing instruction (passenger aircraft)	:	353
Packing instruction (LQ)	:	Y341
Packing group	:	II
Labels	:	Flammable Liquid

14.5 Environmental hazards

ADR

Environmentally hazardous	:	no

RID
Environmentally hazardous : no

IMDG
Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 ethanol; ethyl alcohol (Number on list 40, 3)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Water hazard class (Germany)	:	WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany)	:	Total dust: Not applicable Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: Not applicable Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction:

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 47,2 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H319	:	Causes serious eye irritation.

Full text of other abbreviations

Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DFG	:	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
DE TRGS 900 / AGW	:	Exposure limit(s):
DFG / MAK	:	Maximum allowable concentration:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-

tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 2	H225	Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN

Shipper

LEXZAU, SCHARBAU GMBH & CO. KG
KAP-HORN-STR. 18,
28237 BREMEN, GERMANY
TAX ID: DE 114624125

B/L No.
ALM251193

SACO SHIPPING LINE LTD

Consigned to order of

LESCHACO MEXICANA,S.A. DE C.V.
BLVD. MANUEL AVILA CAMACHO
NO. 88-PISO 8
COL. LOMAS DE CHAPULTEPEC
11000 MEXICO, D.F., MEXICO
TEL.: +52(55)59550000
RFC: LME980116R15

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525103

Notify Party and address

LESCHACO MEXICANA,S.A. DE C.V.
BLVD. MANUEL AVILA CAMACHO
NO. 88-PISO 8
COL. LOMAS DE CHAPULTEPEC
11000 MEXICO, D.F., MEXICO
TEL.: +52(55)59550000

Copy

	Place of receipt
	CFS BREMEN
Ocean vessel	**Port of loading**
TOKYO EXPRESS	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	CFS ALTAMIRA	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
		CARGO DETAILS AS PER ATTACHED STATEMENT			

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
SYMRISE S DE R.L. DE C.V. SAN NICOLAS DE LOS GARZA, N.L. VIA TAMPICO 33400552/01 4500883491	2 PALLET	1 PALLET 16 PLASTIC JERRICANS UN 3H1OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.)	434,100	549,500	1,097
33400552/01 4500883491		1 PALLET 4 PLASTIC JERRICANS UN 3H1 OAKWOOD DISTILLATE I. WD. PRODUCTOS QUIMICOS REGISTRATION NO 18050429796 HS CODE: 33021090UN 1197, EXTRACTS, LIQUID, 3, II, (+22.00 C C.C.)	115,400		
STOWED INTO CONTAINER NO.: TCLU1531421				SEAL : WWA010171086	
TOTAL	**2 PALLET**			**549,500 KGS**	**1,097 CBM**

A409681,A410093
F505693,06242

Gefahrgutaufstellung

NBHX Trim MX
10.11.2023

Pos	Artikel Nr.	VA	Zoll Nr.	Gefahrgut	ADR Tu.	-	Fl.P	Inh.	Anz.	Colli	Brutto	Tara	Netto	Euro	Grund-Tara
0002	80068-0-0392	31	32041700	entfällt	-		>100	3	2	Pappkiste	4,3	1,3	3,0	331,47	0,1
0003	80068-0-0970	31	32041700	entfällt	-		>100	5	1	Pappkiste	6,0	1,0	5,0	427,65	0,1
0008	68020-0-0163	31	32061900	entfällt	-		>100	16	1	Pappkiste	18,1	2,1	16,0	1.380,48	0,1
0010	HB164BP0V007115	EA	32041900	entfällt	-		>100		7	Stahlfass	189,0	14,0	175,0	6.116,25	2,0
0001	HB164BP0V023666	EA	32041900	entfällt	-		>100		1	Stahlfass	27,0	2,0	25,0	273,75	2,0
				entfällt Ergebnis					12		244,4		224,0		
0004	80024-0-0997	31	32064970	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E		33,5	10	1	Pappkiste	11,5	1,5	10,0	914,10	0,1
0007	60500-0-0989	31	32049000	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E	MARINE POLLUTANT	35	14	1	Pappkiste	15,9	1,9	14,0	1.372,14	0,1
0011	60500-0-0339	31	32049000	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E	MARINE POLLUTANT	53	1	1	Pappkiste	1,6	0,6	1,0	106,99	0,1
				UNUN1263 PAINT RELATED MATERIAL, 3 III Ergebnis					3		29,0		25,0		
0009	33179-4-0000	61	32082010	UNUN1263 PAINT, 3 II	D/E		-18		10	Stahlfass	55,0	5,0	50,0	1.689,00	0,5
				UNUN1263 PAINT, 3 II Ergebnis					10		55,0		50,0		
0001	89090-0-0000	65	32041600	UNUN1263 PAINT, 3 III	D/E		30		120	PLA	660,0	60,0	600,0	21.522,00	0,5
0005	L3000697	01	32089091	UNUN1263 PAINT, 3 III	D/E		27		5	Stahlfass	135,0	10,0	125,0	1.152,50	2,0
				UNUN1263 PAINT, 3 III Ergebnis					125		795,0		725,0		
				Gesamtergebnis					150		1.123,4		1.024,0		

ALM251197_1_2/3

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift)
Shipper (Name & Address)

Votteler Lackfabrik GmbH & CO KG
Schwieberdinger Str. 97/102
D-70825 Korntal-Münchingen

Buchungsnummer(n)
Reference number(s)

Empfänger
Consignee

NBHX Trim Mexico S DE RL DE CV
Aguascalientes Plant, Carret
Panamericana Sur KM 114+352#52
L2M3&L3M3 Parque Ind. FINSA
20393 Aguascalientes, Agx. CP
Mexico

Beförderer
Carrier

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

DECLARATION
It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1.

AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

Container-/Fahrzeug-Nr.:
Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading

Löschhafen
Port of discharge

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)

Emergency Phone No.:1 800 535-5053 and (001) 352 323 3500 Infotrac
GBK/Infotrac ID 90374

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN1263	**Paint related material**	**3**	**III**		**1 fibreboard box (1 plastic tubes)**
UN1263	**Paint related material Marine Pollutant**	**3**	**III**		**1 fibreboard box (14 plastic tubes)**
UN1263	**Paint related material Marine Pollutant**	**3**	**III**		**1 fibreboard box (1 plastic tube)**
UN1263	**Paint**	**3**	**II**		**10 steeldrums**
UN1263	**Paint**	**3**	**III**		**5 steeldrums**
UN1263	**Paint**	**3**	**III**		**120 plastic jerricans**

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse - Net quantity/volume/mass Netto Explosivstoffmasse * * * Net explosive mass * * *	Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften/Properties Flammpunkt/Flashpoint * * MARINE POLLUTANT * * Kontroll- und Notfalltemperatur * * Control- and emergency temperature * *
11,5 / 10,0 kg	**F-E,S-E**	**Fl.P.: +33,5°C**
15,9 / 14,0 kg	**F-E,S-E**	**Fl.P.: +35°C**
1,6 / 1,0 kg	**F-E,S-E**	**Fl.P.: +53°C**
55,0 / 50,0 kg	**F-E,S-E**	**Fl.P.: -18°C**
135,0 / 125,0 kg	**F-E,S-E**	**Fl.P.:+27°C**
660,0 / 600,0 kg	**F-E,S-E**	**Fl.P.:+30°C**

Güter angeliefert als/Goods delivered as:
☐ Stückgut/Breakbulk cargo
☐ Ladungseinheiten (Unit Loads) Unitized cargo
☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
☐ offen/open
☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE – LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Kevin-Huy Duong / Exportofficer

Ort und Datum
Place and date

70825 Korntal-Münchingen, 10.11.2023

Unterschrift für den Versender
Signature on behalf of shipper

VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Telefon 0711/9804 5

Druck und Vertrieb:
Dössel & Rademacher, Brandstwiete 42, 20457 Hamburg, Telefon 040-32 32 30-0, Telefax 040-32 32 30-30 **Bestell-Nr. DR299** 05.17
Eigener Entwurf, Nachdruck verboten

Kapitel 5.4/5.5 (IMDG-CODE)

5.4 Besondere Angaben müssen gemacht werden:

- für Güter der Klasse 1 (siehe 5.4.1.5.9);
- für selbstzersetzliche Stoffe und polymerisierende Stoffe der Klasse 4.1 und für organische Peroxide (siehe 5.4.1.5.5);
- für ansteckungsgefährliche Stoffe (siehe 5.4.1.5.6);
- für radioaktive Stoffe (siehe 5.4.1.5.7.1);
- für Abfälle (siehe 5.4.1.4.3.3);
- für erwärmte Stoffe (siehe 5.4.1.4.3.4);
- für begrenzte Mengen (siehe 5.4.1.5.2);
- für Bergungsverpackungen (siehe 5.4.1.5.3);
- für leere ungereinigte Verpackungen und Tanks (siehe 5.4.1.4.3.2);
- für viskose Stoffe (siehe 5.4.1.5.10);
- für Gesamtmenge der gefährlichen Güter (siehe 5.4.1.5.1);
- für die Zusammenladung von Säuren und Alkalien (siehe 5.4.1.5.11.3);

Unter bestimmten Umständen sind besondere Bescheinigungen erforderlich wie z. B.:

- **ein Container/Fahrzeug-Packzertifikat (siehe 5.4.2.1);**
- eine Wetterungsbescheinigung (soweit in der Gefahrgutliste gefordert) (siehe 5.4.4.1);
- eine Bescheinigung, dass ein Stoff, Material oder Gegenstand von den Vorschriften des IMDG-Codes ausgenommen ist (z. B. siehe Stoffseiten für Holzkohle, Fischmehl, Ölkuchen) (siehe 5.4.4.1);
- bei neuen selbstzersetzlichen Stoffen und organischen Peroxiden oder neuen Zubereitungen bereits zugeordneter selbstzersetzlicher Stoffe und organischer Peroxide eine Erklärung der zuständigen Behörde des Herstellungslandes über festgelegte Klassifizierungs- und Beförderungsbedingungen (siehe 5.4.4.1);

5.4.3 Auf Schiffen erforderliche Dokumentation

Jedes Schiff, das gefährliche Güter und Meeresschadstoffe befördert, muss eine besondere Liste, ein Manifest*) oder einen Stauplan mitführen, worin gemäß Regel VII/4.2 von SOLAS 1974, in der jeweils geänderten Fassung, und gemäß Regel 4 Absatz 2 der Anlage III von MARPOL 73/78 die Güter und Meeresschadstoffe sowie ihr Stauplatz aufgeführt sind. Grundlage für diese besondere Liste oder dieses Manifest sind nach diesem Code erforderlichen Beförderungsdokumente und Bescheinigungen. Außer den nach 5.4.1.4, 5.4.1.5 und für die UN-Nummer nach 5.5.2.4.1.1 erforderlichen Angaben müssen der Stauplatz und die Gesamtmenge der gefährlichen Güter und Meeresschadstoffe angegeben sein. Anstelle der besonderen Liste oder des Manifestes kann auch ein ausführlicher Stauplan verwendet werden, in dem alle gefährlichen Güter und Meeresschadstoffe nach Klassen bezeichnet sind und ihr Stauplatz angegeben ist. Eine Ausfertigung eines dieser Dokumente ist von der Hafenstaatbehörde bezeichneten Person oder Organisation vor dem Auslaufen des Schiffes zur Verfügung zu stellen.

*) Entschließung FAL. 10(35), angenommen am 16. Januar 2009, Änderung der Anlage des Übereinkommens von 1965 zur Erleichterung des Internationalen Seeverkehrs.

5.5.2.4 Dokumente im Zusammenhang mit der Beförderung von Güterbeförderungseinheiten, die begast und vor der Beförderung nicht vollständig belüftet wurden, müssen folgende Angaben enthalten:

1. „UN 3359 BEGASTE GÜTERBEFÖRDERUNGSEINHEIT,9“ oder „UN 3359 BEGASTE GÜTERBEFÖRDERUNGSEINHEIT, Klasse 9“,
2. das Datum und den Zeitpunkt der Begasung und
3. Typ und Menge des Begasungsmittels.

5.5.2.4.3 Es müssen Anweisungen für die Beseitigung von Rückständen des Begasungsmittels einschließlich Angaben über die (gegebenenfalls) verwendeten Begasungsgeräte bereitgestellt werden.

Chapter 5.4/5.5 (IMDG-CODE)

5.4 Special information is required:

- for goods of class 1 (see 5.4.1.5.9);
- for self-reactive substances and polymerizing substances of class 4.1 and for organic peroxides (see 5.4.1.5.5);
- for infectious substances (see 5.4.1.5.6);
- for radioactive materials (see 5.4.1.5.7.1);
- for wastes (see 5.4.1.4.3.3);
- for elevated temperature substances (see 5.4.1.4.3.4);
- for dangerous goods packed in limited quantities (see 5.4.1.5.2);
- for salvage packagings (see 5.4.1.5.3);
- for empty uncleaned packagings and tanks (see 5.4.1.4.3.2);
- for viscous substances (see 5.4.1.5.10);
- for the total quantity of the dangerous goods (see 5.4.1.5.1);
- for the transport in the same cargo transport unit (see 5.4.1.5.11.3);

In certain circumstances special certificates are required such as:

- a CTU packing certificate (see 5.4.2.1);
- a weathering certificate as required in the individual schedules (see 5.4.4.1);
- a certificate exempting a substance, material or article from the provisions of the IMDG-Code (e. g. see individual entries for charcoal, fishmeal, seedcake) (see 5.4.4.1);
- for new self-reactive substances and organic peroxides or new formulations of currently assigned self-reactive substances and organic peroxides, a statement by the competent authority of the country of origin of the approved classification and conditions of carriage (see 5.4.4.1);

5.4.3 Documentation required aboard the ship

Each Ship carrying dangerous goods and marine pollutants shall have a special list, manifest*) or stowage plan setting out, in accordance with regulation VII/4.2 of SOLAS, as amended, and with regulation 4.2 of Annex III of MARPOL, the dangerous goods and marine pollutants and the location thereof. This special list or manifest shall be based on the documentation and certification required in this Code. It shall contain in addition to the information in 5.4.1.4, 5.4.1.5 and for UN 3359, in 5.5.2.4.1.1, the stowage location and the total quantity of dangerous goods and marine pollutants. A detailed stowage plan, which identifies by class and sets out the location of all dangerous goods and marine pollutants, may be used in place of such special list or manifest. A copy of one of these documents shall be made available before departure to the person or organization designated by the port State authority.

*) Refer to Amendments to the annex to the convention on facilitation of international maritime traffic, 1965 (resolution FAL.10(35), adopted on 16 January 2009.

5.5.2.4 Documents associated with the transport of the cargo transport units that have been fumigated and have not been completely ventilated before transport shall include the following information:

1. „UN 3359, FUMIGATED CARGO TRANSPORT UNIT,9“ or „UN 3359, FUMIGATED CARGO TRANSPORT UNIT, class 9“;
2. the date and time of fumigation; and
3. the type and amount of fumigant used.

5.5.2.4.3 Instructions for disposal of any residual fumigant including fumigation devices (if used) shall be provided.

A409681,A410093
F505693,06242

Gefahrgutaufstellung

NBHX Trim MX
10.11.2023

Pos	Artikel Nr.	VA	Zoll Nr.	Gefahrgut	ADR Tu.	-	Fl.P	Inh.	Anz.	Colli	Brutto	Tara	Netto	Euro	Grund-Tara
0002	80068-0-0392	31	32041700	entfällt	-		>100	3	2	Pappkiste	4,3	1,3	3,0	331,47	0,1
0003	80068-0-0970	31	32041700	entfällt	-		>100	5	1	Pappkiste	6,0	1,0	5,0	427,65	0,1
0008	68020-0-0163	31	32061900	entfällt	-		>100	16	1	Pappkiste	18,1	2,1	16,0	1.380,48	0,1
0010	HB164BP0V007115	EA	32041900	entfällt	-		>100		7	Stahlfass	189,0	14,0	175,0	6.116,25	2,0
0001	HB164BP0V023666	EA	32041900	entfällt	-		>100		1	Stahlfass	27,0	2,0	25,0	273,75	2,0
				entfällt Ergebnis					12		244,4		224,0		
0004	80024-0-0997	31	32064970	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E		33,5	10	1	Pappkiste	11,5	1,5	10,0	914,10	0,1
0007	60500-0-0989	31	32049000	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E	MARINE POLLUTANT	35	14	1	Pappkiste	15,9	1,9	14,0	1.372,14	0,1
0011	60500-0-0339	31	32049000	UNUN1263 PAINT RELATED MATERIAL, 3 III	D/E	MARINE POLLUTANT	53	1	1	Pappkiste	1,6	0,6	1,0	106,99	0,1
				UNUN1263 PAINT RELATED MATERIAL, 3 III Ergebnis					3		29,0		25,0		
0009	33179-4-0000	61	32082010	UNUN1263 PAINT, 3 II	D/E		-18		10	Stahlfass	55,0	5,0	50,0	1.689,00	0,5
				UNUN1263 PAINT, 3 II Ergebnis					10		55,0		50,0		
0001	89090-0-0000	65	32041600	UNUN1263 PAINT, 3 III	D/E		30		120	PLA	660,0	60,0	600,0	21.522,00	0,5
0005	L3000697	01	32089091	UNUN1263 PAINT, 3 III	D/E		27		5	Stahlfass	135,0	10,0	125,0	1.152,50	2,0
				UNUN1263 PAINT, 3 III Ergebnis					125		795,0		725,0		
				Gesamtergebnis					150		1.123,4		1.024,0		

ALM251197_1_2/3

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift)
Shipper (Name & Address)

Votteler Lackfabrik GmbH & CO KG
Schwieberdinger Str. 97/102
D-70825 Korntal-Münchingen

Buchungsnummer(n)
Reference number(s)

Empfänger
Consignee

NBHX Trim Mexico S DE RL DE CV
Aguascalientes Plant, Carret
Panamericana Sur KM 114+352#52
L2M3&L3M3 Parque Ind. FINSA
20393 Aguascalientes, Agx. CP
Mexico

Beförderer
Carrier

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

DECLARATION
It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1.

AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

Container-/Fahrzeug-Nr.:
Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading

Löschhafen
Port of discharge

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)

Emergency Phone No.:1 800 535-5053 and (001) 352 323 3500 Infotrac
GBK/Infotrac ID 90374

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN1263	**Paint related material**	**3**	**III**		**1 fibreboard box (1 plastic tubes)**
UN1263	**Paint related material Marine Pollutant**	**3**	**III**		**1 fibreboard box (14 plastic tubes)**
UN1263	**Paint related material Marine Pollutant**	**3**	**III**		**1 fibreboard box (1 plastic tube)**
UN1263	**Paint**	**3**	**II**		**10 steeldrums**
UN1263	**Paint**	**3**	**III**		**5 steeldrums**
UN1263	**Paint**	**3**	**III**		**120 plastic jerricans**

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse - Net quantity/volume/mass Netto Explosivstoffmasse * * * Net explosive mass * * *	Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften/Properties Flammpunkt/Flashpoint * * MARINE POLLUTANT * * Kontroll- und Notfalltemperatur * * Control- and emergency temperature * *
11,5 / 10,0 kg	**F-E,S-E**	**Fl.P.: +33,5°C**
15,9 / 14,0 kg	**F-E,S-E**	**Fl.P.: +35°C**
1,6 / 1,0 kg	**F-E,S-E**	**Fl.P.: +53°C**
55,0 / 50,0 kg	**F-E,S-E**	**Fl.P.: -18°C**
135,0 / 125,0 kg	**F-E,S-E**	**Fl.P.:+27°C**
660,0 / 600,0 kg	**F-E,S-E**	**Fl.P.:+30°C**

Güter angeliefert als/Goods delivered as:
☐ Stückgut/Breakbulk cargo
☐ Ladungseinheiten (Unit Loads) Unitized cargo
☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
☐ offen/open
☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE – LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Kevin-Huy Duong / Exportofficer

Ort und Datum
Place and date

70825 Korntal-Münchingen, 10.11.2023

Unterschrift für den Versender
Signature on behalf of shipper

VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Telefon 0711/9804 5

Druck und Vertrieb:
Dössel & Rademacher, Brandstwiete 42, 20457 Hamburg, Telefon 040-32 32 30-0, Telefax 040-32 32 30-30 **Bestell-Nr. DR299** 05.17
Eigener Entwurf, Nachdruck verboten

Kapitel 5.4/5.5 (IMDG-CODE)

5.4 Besondere Angaben müssen gemacht werden:

- für Güter der Klasse 1 (siehe 5.4.1.5.9);
- für selbstzersetzliche Stoffe und polymerisierende Stoffe der Klasse 4.1 und für organische Peroxide (siehe 5.4.1.5.5);
- für ansteckungsgefährliche Stoffe (siehe 5.4.1.5.6);
- für radioaktive Stoffe (siehe 5.4.1.5.7.1);
- für Abfälle (siehe 5.4.1.4.3.3);
- für erwärmte Stoffe (siehe 5.4.1.4.3.4);
- für begrenzte Mengen (siehe 5.4.1.5.2);
- für Bergungsverpackungen (siehe 5.4.1.5.3);
- für leere ungereinigte Verpackungen und Tanks (siehe 5.4.1.4.3.2);
- für viskose Stoffe (siehe 5.4.1.5.10);
- für Gesamtmenge der gefährlichen Güter (siehe 5.4.1.5.1);
- für die Zusammenladung von Säuren und Alkalien (siehe 5.4.1.5.11.3);

Unter bestimmten Umständen sind besondere Bescheinigungen erforderlich wie z. B.:

- **ein Container/Fahrzeug-Packzertifikat (siehe 5.4.2.1);**
- eine Wetterungsbescheinigung (soweit in der Gefahrgutliste gefordert) (siehe 5.4.4.1);
- eine Bescheinigung, dass ein Stoff, Material oder Gegenstand von den Vorschriften des IMDG-Codes ausgenommen ist (z. B. siehe Stoffseiten für Holzkohle, Fischmehl, Ölkuchen) (siehe 5.4.4.1);
- bei neuen selbstzersetzlichen Stoffen und organischen Peroxiden oder neuen Zubereitungen bereits zugeordneter selbstzersetzlicher Stoffe und organischer Peroxide eine Erklärung der zuständigen Behörde des Herstellungslandes über festgelegte Klassifizierungs- und Beförderungsbedingungen (siehe 5.4.4.1);

5.4.3 Auf Schiffen erforderliche Dokumentation

Jedes Schiff, das gefährliche Güter und Meeresschadstoffe befördert, muss eine besondere Liste, ein Manifest*) oder einen Stauplan mitführen, worin gemäß Regel VII/4.2 von SOLAS 1974, in der jeweils geänderten Fassung, und gemäß Regel 4 Absatz 2 der Anlage III von MARPOL 73/78 die Güter und Meeresschadstoffe sowie ihr Stauplatz aufgeführt sind. Grundlage für diese besondere Liste oder dieses Manifest sind nach diesem Code erforderlichen Beförderungsdokumente und Bescheinigungen. Außer den nach 5.4.1.4, 5.4.1.5 und für die UN-Nummer nach 5.5.2.4.1.1 erforderlichen Angaben müssen der Stauplatz und die Gesamtmenge der gefährlichen Güter und Meeresschadstoffe angegeben sein. Anstelle der besonderen Liste oder des Manifestes kann auch ein ausführlicher Stauplan verwendet werden, in dem alle gefährlichen Güter und Meeresschadstoffe nach Klassen bezeichnet sind und ihr Stauplatz angegeben ist. Eine Ausfertigung eines dieser Dokumente ist von der Hafenstaatbehörde bezeichneten Person oder Organisation vor dem Auslaufen des Schiffes zur Verfügung zu stellen.

*) Entschließung FAL. 10(35), angenommen am 16. Januar 2009, Änderung der Anlage des Übereinkommens von 1965 zur Erleichterung des Internationalen Seeverkehrs.

5.5.2.4 Dokumente im Zusammenhang mit der Beförderung von Güterbeförderungseinheiten, die begast und vor der Beförderung nicht vollständig belüftet wurden, müssen folgende Angaben enthalten:

1. „UN 3359 BEGASTE GÜTERBEFÖRDERUNGSEINHEIT,9“ oder „UN 3359 BEGASTE GÜTERBEFÖRDERUNGSEINHEIT, Klasse 9“,
2. das Datum und den Zeitpunkt der Begasung und
3. Typ und Menge des Begasungsmittels.

5.5.2.4.3 Es müssen Anweisungen für die Beseitigung von Rückständen des Begasungsmittels einschließlich Angaben über die (gegebenenfalls) verwendeten Begasungsgeräte bereitgestellt werden.

Chapter 5.4/5.5 (IMDG-CODE)

5.4 Special information is required:

- for goods of class 1 (see 5.4.1.5.9);
- for self-reactive substances and polymerizing substances of class 4.1 and for organic peroxides (see 5.4.1.5.5);
- for infectious substances (see 5.4.1.5.6);
- for radioactive materials (see 5.4.1.5.7.1);
- for wastes (see 5.4.1.4.3.3);
- for elevated temperature substances (see 5.4.1.4.3.4);
- for dangerous goods packed in limited quantities (see 5.4.1.5.2);
- for salvage packagings (see 5.4.1.5.3);
- for empty uncleaned packagings and tanks (see 5.4.1.4.3.2);
- for viscous substances (see 5.4.1.5.10);
- for the total quantity of the dangerous goods (see 5.4.1.5.1);
- for the transport in the same cargo transport unit (see 5.4.1.5.11.3);

In certain circumstances special certificates are required such as:

- a CTU packing certificate (see 5.4.2.1);
- a weathering certificate as required in the individual schedules (see 5.4.4.1);
- a certificate exempting a substance, material or article from the provisions of the IMDG-Code (e. g. see individual entries for charcoal, fishmeal, seedcake) (see 5.4.4.1);
- for new self-reactive substances and organic peroxides or new formulations of currently assigned self-reactive substances and organic peroxides, a statement by the competent authority of the country of origin of the approved classification and conditions of carriage (see 5.4.4.1);

5.4.3 Documentation required aboard the ship

Each Ship carrying dangerous goods and marine pollutants shall have a special list, manifest*) or stowage plan setting out, in accordance with regulation VII/4.2 of SOLAS, as amended, and with regulation 4.2 of Annex III of MARPOL, the dangerous goods and marine pollutants and the location thereof. This special list or manifest shall be based on the documentation and certification required in this Code. It shall contain in addition to the information in 5.4.1.4, 5.4.1.5 and for UN 3359, in 5.5.2.4.1.1, the stowage location and the total quantity of dangerous goods and marine pollutants. A detailed stowage plan, which identifies by class and sets out the location of all dangerous goods and marine pollutants, may be used in place of such special list or manifest. A copy of one of these documents shall be made available before departure to the person or organization designated by the port State authority.

*) Refer to Amendments to the annex to the convention on facilitation of international maritime traffic, 1965 (resolution FAL.10(35), adopted on 16 January 2009.

5.5.2.4 Documents associated with the transport of the cargo transport units that have been fumigated and have not been completely ventilated before transport shall include the following information:

1. „UN 3359, FUMIGATED CARGO TRANSPORT UNIT,9“ or „UN 3359, FUMIGATED CARGO TRANSPORT UNIT, class 9“;
2. the date and time of fumigation; and
3. the type and amount of fumigant used.

5.5.2.4.3 Instructions for disposal of any residual fumigant including fumigation devices (if used) shall be provided.

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1 Identification

· **Product identifier**

· **Trade name: PROVOTEC®**

· **Article number:** 89090-0-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Flammable Liquids 3 H226 Flammable liquid and vapor.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02

· **Signal word** Warning
· **Hazard statements**
Flammable liquid and vapor.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

(Contd. on page 2)

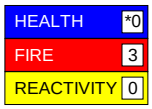
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· **WHMIS-ratings (scale 0 - 4)**



*Health = *0*
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	25-50%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	2.5-5%
220410-74-2	1,4-dihydroxy-2,2,6,6-tetramethylpiperidinium-2-hydroxy-1,2,3-propanetricarboxylate	0.5-2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· ***Protective Action Criteria for Chemicals***

· **PAC-1:**		
64-17-5	ethanol	1,800 ppm

· **PAC-2:**		
64-17-5	ethanol	3300* ppm

· **PAC-3:**		
64-17-5	ethanol	15000* ppm

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
No special precautions are necessary if used correctly.
Use only in well ventilated areas.
· ***Information about protection against explosions and fires:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *Keep receptacle tightly sealed.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see item 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*

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· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)

· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*

· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves

· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Colorless*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*6-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*78 °C (172.4 °F)*
· ***Flash point:***	*30 °C (86 °F)*
· ***Flammability (solid, gaseous):***	*Flammable.*
· ***Ignition temperature:***	*425 °C (797 °F)*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*
· ***Explosion limits:***	
Lower:	*3.5 Vol %*

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Upper:	15 Vol %
· **Vapor pressure at 20 °C (68 °F):**	59 hPa (44.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	30.4 %
Water:	67.3 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
64-17-5	ethanol	1
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids

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· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol

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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
78-93-3	butanone	I
50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**		
64-17-5	ethanol	A3
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**		
64-17-5	ethanol	5
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/02/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
· *** Data compared to the previous version altered.**

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT ***
ROT KONZENTRIERT

· **Article number:** 60500-0-0339
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 3	H226 Flammable liquid and vapor.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
1-methoxy-2-propanol
· **Hazard statements**
Flammable liquid and vapor.
May cause drowsiness or dizziness.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.

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Trade name: FARBKONZENTRAT *
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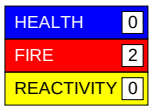
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 2
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 2
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
34590-94-8	Dipropylene glycol monomethyl ether	25-50%
107-98-2	1-methoxy-2-propanol	25-50%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
107-98-2	1-methoxy-2-propanol	100 ppm

· **PAC-2:**		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
107-98-2	1-methoxy-2-propanol	160 ppm

· **PAC-3:**		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
107-98-2	1-methoxy-2-propanol	660 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 Dipropylene glycol monomethyl ether	
PEL	Long-term value: 600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin

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ROT KONZENTRIERT

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TLV	*Long-term value: 50 ppm*
107-98-2 1-methoxy-2-propanol	
REL	*Short-term value: 540 mg/m³, 150 ppm* *Long-term value: 360 mg/m³, 100 ppm*
TLV	*Short-term value: 100 ppm* *Long-term value: 50 ppm* *A4*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)
· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*
· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***
· ***General Information***
· ***Appearance:***

Form:	*Fluid*
Color:	*Red*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/19/2023 Reviewed on 02/19/2023

Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

(Contd. of page 4)

· **pH-value at 20 °C (68 °F):**	4-6
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	120.3 °C (248.5 °F)
· **Flash point:**	53 °C (127.4 °F)
· **Flammability (solid, gaseous):**	Flammable.
· **Ignition temperature:**	270 °C (518 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	1.1 Vol %
Upper:	~20 Vol %
· **Vapor pressure at 20 °C (68 °F):**	12 hPa (9 mm Hg)
· **Density at 20 °C (68 °F):**	1.02 g/cm³ (8.512 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	13 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	67.5 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

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Safety Data Sheet
acc. to OSHA HCS

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

(Contd. of page 5)

· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1263
· **UN proper shipping name**	
· **DOT**	Paint related material
· **ADR**	1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS
· **IMDG**	PAINT RELATED MATERIAL, MARINE POLLUTANT
· **IATA**	PAINT RELATED MATERIAL

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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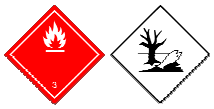
· **Transport hazard class(es)**

· **DOT**



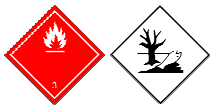
· **Class**	3 Flammable liquids
· **Label**	3

· **ADR**



· **Class**	3 (F1) Flammable liquids
· **Label**	3

· **IMDG**



· **Class**	3 Flammable liquids
· **Label**	3

· **IATA**



· **Class**	3 Flammable liquids
· **Label**	3

· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** *Abteilung Entwicklung*
· **Contact:** *Jeweiliger Produktverantwortlicher*
· **Date of preparation / last revision** *02/19/2023*
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**

VOTTELER

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

1 Identification

· **Product identifier**

· **Trade name: HYDROPLUS® BEIZE**
HONDA MDX SMOKED OLIVE ASH

· **Article number:** HB164BP0V007115
· **Application of the substance / the mixture** Paint

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

*

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Reactive Brown 11
Acid Black 172
Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl) azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 1)

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
12225-68-2	Reactive Brown 11	<0.5%
57693-14-8	Acid Black 172	<0.5%
79828-43-6	Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)	<0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

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Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 2)

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about protection against explosions and fires:*** *No special measures required.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *None.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see section 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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application.
· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)
· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*
· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:*** *Goggles recommended during refilling.*

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Dark grey*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*7-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*100 °C (212 °F)*
· ***Flash point:***	*>100 °C (>212 °F)*
· ***Flammability (solid, gaseous):***	*Not applicable.*
· ***Decomposition temperature:***	*Not determined.*
· ***Ignition temperature:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapor pressure at 20 °C (68 °F):***	*23 hPa (17.3 mm Hg)*
· ***Density at 20 °C (68 °F):***	*1 g/cm³ (8.345 lbs/gal)*
· ***Relative density***	*Not determined.*
· ***Vapor density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with***	
Water:	*Fully miscible.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic at 20 °C (68 °F):	*12 s (DIN 53211/4)*
· ***Solvent content:***	
Organic solvents:	*0.7 %*
Water:	*98.0 %*

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Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 4)

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 5)

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

*

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
1333-86-4	Carbon black	ACTIVE
57693-14-8	Acid Black 172	ACTIVE
79828-43-6	Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)	ACTIVE
57-55-6	Propylene glycol	ACTIVE

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 6)

· ***Hazardous Air Pollutants***

50-00-0	formaldehyde

· ***Proposition 65***

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients is listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients is listed.

· ***Cancerogenity categories***

· ***EPA (Environmental Protection Agency)***

50-00-0	formaldehyde	B1

· ***TLV (Threshold Limit Value)***

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· ***MAK (German Maximum Workplace Concentration)***

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· ***NIOSH-Ca (National Institute for Occupational Safety and Health)***

1333-86-4	Carbon black
50-00-0	formaldehyde

· ***Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Classification according to Regulation (EC) No 1272/2008***
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· ***Department issuing SDS:*** *Abteilung Entwicklung*
· ***Contact:*** *Jeweiliger Produktverantwortlicher*
· ***Date of preparation / last revision*** *10/05/2023*
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· **** Data compared to the previous version altered.***

1 Identification

· **Product identifier**

· **Trade name: PURIDUR®-LACK FARBLOS, SATIN**

· **Article number:** 33179-4-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
n-butyl acetate
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
acetone
ethyl acetate
BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1
BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2
· **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.

(Contd. on page 2)

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

(Contd. of page 1)

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
123-86-4	n-butyl acetate	50-100%
67-64-1	acetone	10-25%
141-78-6	ethyl acetate	5-10%
1065336-91-5	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.5-2.5%

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Trade name: PURIDUR®-LACK
FARBLOS, SATIN

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104810-47-1	BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1	<0.5%
104810-48-2	BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2	<0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
123-86-4	n-butyl acetate	5 ppm
67-64-1	acetone	200 ppm
141-78-6	ethyl acetate	1,200 ppm

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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· **PAC-2:**		
123-86-4	n-butyl acetate	200 ppm
67-64-1	acetone	3200* ppm
141-78-6	ethyl acetate	1,700 ppm

· **PAC-3:**		
123-86-4	n-butyl acetate	3000* ppm
67-64-1	acetone	5700* ppm
141-78-6	ethyl acetate	10000** ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

123-86-4 n-butyl acetate		
Oral	LD50	14,000 mg/kg (rat)
Inhalative	LC50/4 h	>21 mg/l (rat)

· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm

67-64-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

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141-78-6 ethyl acetate	
PEL	Long-term value: 1400 mg/m³, 400 ppm
REL	Long-term value: 1400 mg/m³, 400 ppm
TLV	Long-term value: 400 ppm

· **Ingredients with biological limit values:**

67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Suitable respiratory protective device recommended.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
· **Eye protection:**



Tightly sealed goggles

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Colorless
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	6-8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55.8-56.6 °C (132.4-133.9 °F)
· **Flash point:**	-18 °C (-0.4 °F)
· **Flammability (solid, gaseous):**	Highly flammable.
· **Ignition temperature:**	370 °C (698 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	2.1 Vol %
Upper:	13 Vol %
· **Vapor pressure at 20 °C (68 °F):**	233 hPa (174.8 mm Hg)
· **Density at 20 °C (68 °F):**	0.91 g/cm³ (7.594 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	33 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	81.2 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1330-20-7	xylene (mix)	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids
· **Label** 3

· **Packing group**
· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**
· **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

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· **ADR**	
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

71-36-3	butanol

· **TSCA (Toxic Substances Control Act):**

123-86-4	n-butyl acetate	ACTIVE
67-64-1	acetone	ACTIVE
141-78-6	ethyl acetate	ACTIVE
9004-36-8	Celluloseacetobutyrate	ACTIVE
8002-74-2	Paraffin waxes and Hydrocarbon waxes	ACTIVE
71-36-3	butanol	ACTIVE
104810-47-1	BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1	ACTIVE
104810-48-2	BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2	ACTIVE

· **Hazardous Air Pollutants**

1330-20-7	xylene (mix)
100-41-4	ethylbenzene
108-88-3	toluene

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
71-36-3	butanol	D

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1330-20-7	xylene (mix)	I
100-41-4	ethylbenzene	D
108-88-3	toluene	II

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
1330-20-7	xylene (mix)	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4

· **MAK (German Maximum Workplace Concentration)**

100-41-4	ethylbenzene	3A

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/23/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/18/2023 *Reviewed on 02/18/2023*

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT WEISS**

· **Article number:** 68020-0-0163
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
2-octyl-2H-isothiazol-3-one
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

(Contd. on page 2)

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Trade name: FARBKONZENTRAT WEISS

(Contd. of page 1)

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
1569-02-4	1-ethoxypropan-2-ol	0.5-2.5%
26530-20-1	2-octyl-2H-isothiazol-3-one	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

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Trade name: FARBKONZENTRAT WEISS

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Ensure adequate ventilation.
· ***Reference to other sections***
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about protection against explosions and fires:*** *No special measures required.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *None.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see item 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

1569-02-4 1-ethoxypropan-2-ol	
REL	*Skin*
TLV	*Short-term value: 200 ppm* *Long-term value: 50 ppm* *Skin*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	White
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	371 °C (699.8 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.18 g/cm³ (9.847 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	15 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	2.5 %

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Water:	68.1 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
13463-67-7	titanium dioxide	2B
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
867040-07-1	aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts	ACTIVE
15647-11-7	3-aminomethyl-3,5,5-trimethylcyclohexan-1-ol	ACTIVE
1302-78-9	Bentonite	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

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· **Proposition 65**

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

13463-67-7	titanium dioxide	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/18/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

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1 Identificación de la sustancia química peligrosa o mezcla y del proveedor o fabricante

· **Identificador del producto**

· **Nombre comercial:** **FARBKONZENTRAT ***
SCHWARZ KONZENTRIERT

· **Número del artículo:** 60500-0-0989
· **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**
No existen más datos relevantes disponibles.
· **Utilización del producto / de la elaboración** Pasta para matizar

· **Datos del proveedor de la ficha de datos de seguridad**
· **Fabricante/distribuidor:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: +49 (0)711 9804-5
Fax: +49 (0)711 9804-722

· **Área de información:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (solo durante el horario normal de oficina)
msds@votteler.com
· **Teléfono de emergencia:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Identificación de los peligros

· **Clasificación de la sustancia o de la mezcla**

Líq. infl. 3	H226 Líquidos y vapores inflamables.
Irrit. oc. 2A	H319 Provoca irritación ocular grave.
Sens. cut. 1	H317 Puede provocar una reacción alérgica en la piel.
STOT única 3	H336 Puede provocar somnolencia o vértigo.

· **Elementos de la etiqueta**
· **Elementos de las etiquetas del SAM**
El producto se ha clasificado y etiquetado de conformidad con el Sistema Globalmente Armonizado (GHS).
· **Pictogramas de peligro**



GHS02 GHS07

· **Palabra de advertencia** Atención

· **Componentes peligrosos a indicar en el etiquetaje:**
Acid Black 172
1-metoxi-2-propanol
· **Indicaciónes de peligro**
Líquidos y vapores inflamables.
Provoca irritación ocular grave.
Puede provocar una reacción alérgica en la piel.
Puede provocar somnolencia o vértigo.
· **Consejos de prudencia**
Mantener alejado del calor, superficies calientes, chispas, llamas al descubierto y otras fuentes de ignición.
No fumar.
Utilizar material [eléctrico/ de ventilación/iluminación] antideflagrante.

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EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].
EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
Guardar bajo llave.
Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
· ***Otros peligros***
· ***Resultados de la valoración PBT y mPmB***
· ***PBT:*** *No aplicable.*
· ***mPmB:*** *No aplicable.*

3 Composición / información sobre los componentes

· ***Caracterización química: Mezclas***
· ***Descripción:*** *Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.*

· **Componentes peligrosos:**		
1-metoxi-2-propanol	Líq. infl. 3, H226; STOT única 3, H336; Tox. ag. 5, H303	50-100%
Acid Black 172	Irrit. oc. 2A, H319; Sens. cut. 1, H317	25-50%

· ***Indicaciones adicionales:***
El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

4 Primeros auxilios

· ***Descripción de los primeros auxilios***
· ***Instrucciones generales:*** *Quitarse de inmediato toda prenda contaminada con el producto.*
· ***En caso de inhalación del producto:***
Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.
Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
· ***En caso de contacto con la piel:***
Lavar inmediatamente con agua y jabón y enjuagar bien.
Lavar inmediatamente con agua.
· ***En caso de con los ojos:***
Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.
· ***En caso de ingestión:*** *Consultar un médico si los trastornos persisten.*
· ***Indicaciones para el médico:***
· ***Principales síntomas y efectos, agudos y retardados*** *No existen más datos relevantes disponibles.*
· ***Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente***
No existen más datos relevantes disponibles.

5 Medidas contra incendios

· ***Medios de extinción***
· ***Sustancias extintoras apropiadas:***
CO2, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.
· ***Sustancias extintoras inapropiadas por razones de seguridad:*** *Agua a pleno chorro*
· ***Peligros específicos derivados de la sustancia o la mezcla*** *No existen más datos relevantes disponibles.*
· ***Recomendaciones para el personal de lucha contra incendios***
· ***Equipo especial de protección:*** *No se requieren medidas especiales.*

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6 Medidas que deben tomarse en caso de derrame o fuga accidental

· ***Precauciones personales, equipo de protección y procedimientos de emergencia***
Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.
· ***Precauciones relativas al medio ambiente:***
Impedir que penetre en el alcantarillado, en fosas o en sótanos.
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
· ***Métodos y material de contención y de limpieza:***
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
Desechar el material contaminado como vertido según item 13.
Asegurar suficiente ventilación.
· ***Referencia a otras secciones***
Ver capítulo 7 para mayor información sobre una manipulación segura.
Ver capítulo 8 para mayor información sobre el equipo personal de protección.
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

7 Manejo y almacenamiento

· ***Manipulación:***
· ***Precauciones para una manipulación segura***
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
Evitar la formación de aerosoles.
· ***Prevención de incendios y explosiones:***
Mantener alejadas las fuentes de encendido. No fumar.
Tomar medidas contra las cargas electrostáticas.

· ***Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades***
· ***Almacenamiento:***
· ***Exigencias con respecto al almacén y los recipientes:*** *No se requieren medidas especiales.*
· ***Normas en caso de un almacenamiento conjunto:*** *No es necesario.*
· ***Indicaciones adicionales sobre las condiciones de almacenamiento:***
Mantener el recipiente cerrado herméticamente.
· ***Usos específicos finales*** *No existen más datos relevantes disponibles.*

8 Controles de exposición / protección personal

· ***Parámetros de control***

· ***Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:***	
1-metoxi-2-propanol	
VLE (MX)	*VLE-CT o P: 150 ppm* *VLE-PPT: 100 ppm*
REL (US)	*VLE-CT o P: 540 mg/m³, 150 ppm* *VLE-PPT: 360 mg/m³, 100 ppm*
TLV (US)	*VLE-CT o P: 100 ppm* *VLE-PPT: 50 ppm* *A4*

· ***Controles de la exposición***
· ***Equipo de protección individual:***
· ***Medidas generales de protección e higiene:***
Mantener alejado de alimentos, bebidas y alimentos para animales.
Quitarse de inmediato la ropa ensuciada o impregnada.
Lavarse las manos antes de las pausas y al final del trabajo.
Evitar el contacto con los ojos.
Evitar el contacto con los ojos y la piel.

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· ***Protección respiratoria:*** *Se recomienda protección respiratoria.*
· ***Protección de manos:***



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
· ***Material de los guantes***
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.
· ***Tiempo de penetración del material de los guantes***
Guantes para exposiciones breves/protección contra salpicaduras - lista no exhaustiva
Caucho butílico, espesor > 0,35 mm, tiempo de ruptura: > 30 min
· ***Para el contacto permanente de un máximo de 15 minutos son adecuados los guantes compuestos por los siguientes materiales:***
Caucho fluorado (Viton)
· ***Para protegerse contra salpicaduras son adecuados los guantes compuestos por los siguientes materiales:***
Guantes de neopreno

· ***No son adecuados los guantes compuestos por los siguientes materiales:***
Guantes de piel
Guantes de tela gruesa
· ***Protección de ojos:***



Gafas de protección herméticas

9 Propiedades físicas y químicas

· ***Información sobre propiedades físicas y químicas básicas***	
· ***Datos generales***	
· ***Aspecto:***	
Forma:	*Líquido*
Color:	*Negro*
· ***Olor:***	*Específico*
· ***Umbral olfativo:***	*No determinado.*
· ***valor pH a 20 °C:***	*6-8*
· ***Cambio de estado***	
Punto de fusión/punto de congelación:	*Indeterminado.*
Punto inicial de ebullición e intervalo de ebullición:	*120.3 °C*
· ***Punto de inflamación:***	*35 °C*
· ***Inflamabilidad (sólido, gas):***	*Inflamable.*
· ***Temperatura de auto-inflamación:***	*270 °C*
· ***Temperatura de descomposición:***	*No determinado.*

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· **Temperatura de ignición:**	El producto no es autoinflamable.
· **Propiedades explosivas:**	El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.
· **Límites de explosión:**	
Inferior:	2.3 Vol %
Superior:	~20 Vol %
· **Presión de vapor a 20 °C:**	12 hPa
· **Densidad a 20 °C:**	1.02 g/cm³
· **Densidad relativa**	No determinado.
· **Densidad de vapor**	No determinado.
· **Tasa de evaporación:**	No determinado.
· **Solubilidad en / miscibilidad con agua:**	Poco o no mezclable.
· **Coeficiente de reparto: n-octanol/agua:**	No determinado.
· **Viscosidad:**	
Dinámica:	No determinado.
Cinemática a 20 °C:	13 s (DIN 53211/4)
· **Concentración del disolvente:**	
Disolventes orgánicos:	62.0 %
VOC	632.4 g/l
· **Otros datos**	No existen más datos relevantes disponibles.

10 Estabilidad y reactividad

· **Reactividad** No existen más datos relevantes disponibles.
· **Estabilidad química**
· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
· **Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
· **Condiciones que deben evitarse** No existen más datos relevantes disponibles.
· **Materiales incompatibles:** No existen más datos relevantes disponibles.
· **Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

11 Información toxicológica

· **Información sobre los efectos toxicológicos**
· **Toxicidad aguda**
· **Efecto estimulante primario:**
· **Corrosión o irritación cutáneas** No produce irritaciones.
· **Lesiones o irritación ocular graves** Produce irritaciones.
· **Sensibilización respiratoria o cutánea** Posible sensibilización al entrar en contacto con la piel.
· **Indicaciones toxicológicas adicionales:**
En conformidad con el procedimiento de cálculo contenido en la última versión de la Normativa General de Clasificación de la CE para Preparados, el producto tiene los siguientes riesgos:
Irritante

12 Información ecotoxicológica

· **Toxicidad**
· **Toxicidad acuática:** No existen más datos relevantes disponibles.

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· **Persistencia y degradabilidad** No existen más datos relevantes disponibles.
· **Comportamiento en sistemas ecológicos:**
· **Potencial de bioacumulación** No existen más datos relevantes disponibles.
· **Movilidad en el suelo** No existen más datos relevantes disponibles.
· **Indicaciones medioambientales adicionales:**
· **Indicaciones generales:**
Nivel de riesgo para el agua 2 (autoclasificación): peligroso para el agua
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
Una cantidad mínima vertida en el subsuelo ya representa un peligro para el agua potable.
· **Resultados de la valoración PBT y mPmB**
· **PBT:** No aplicable.
· **mPmB:** No aplicable.
· **Otros efectos adversos** No existen más datos relevantes disponibles.

13 Información relativa a la eliminación de los productos

· **Métodos para el tratamiento de residuos**
· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

· **Embalajes sin limpiar:**
· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

14 Información relativa al transporte

· **Número ONU**	
· **ADR, IMDG, IATA**	UN1263
· **Designación oficial de transporte de las Naciones Unidas**	
· **ADR**	1263 PRODUCTOS PARA PINTURA
· **IMDG**	PAINT RELATED MATERIAL, MARINE POLLUTANT
· **IATA**	PAINT RELATED MATERIAL
· **Clase(s) de peligro para el transporte**	
· **ADR**	



· **Clase**	3 (F1) Líquidos inflamables
· **Etiqueta**	3
· **IMDG**	



· **Class**	3 Líquidos inflamables
· **Label**	3
· **IATA**	



· **Class**	3 Líquidos inflamables

(se continua en página 7)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 27.09.2023 *Número de versión 56* *Revisión: 19.01.2023*

Nombre comercial: FARBKONZENTRAT *
SCHWARZ KONZENTRIERT

(se continua en página 6)

· **Label**	3
· **Grupo de embalaje**	
· **ADR, IMDG, IATA**	III
· **Peligros para el medio ambiente:**	El producto contiene materias peligrosas para el medio ambiente: Acid Black 172
· **Contaminante marino:**	Sí
· **Marcado especial (ADR):**	Símbolo (pez y árbol) Símbolo (pez y árbol)
· **Precauciones particulares para los usuarios**	Atención: Líquidos inflamables
· **Número de identificación de peligro (Número Kemler):**	30
· **Número EMS:**	F-E,S-E
· **Stowage Category**	A
· **Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC**	No aplicable.
· **Transporte/datos adicionales:**	
· **ADR**	
· **Cantidades limitadas (LQ)**	5L
· **Cantidades exceptuadas (EQ)**	Código: E1 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 1000 ml
· **Categoria de transporte**	3
· **Código de restricción del túnel**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **"Reglamentación Modelo" de la UNECE:**	UN 1263 PRODUCTOS PARA PINTURA, 3, III, PELIGROSO PARA EL MEDIO AMBIENTE

15 Información reglamentaria

· **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

· **Directiva 2012/18/UE**
· **Sustancias peligrosas nominadas - ANEXO I** ninguno de los componentes está incluido en una lista
· **Categoría Seveso**
E2 Peligroso para el medio ambiente acuático
P5c LÍQUIDOS INFLAMABLES
· **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 200 t
· **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 500 t
· **Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

*

16 Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contratual.

(se continua en página 8)

Hoja de datos de seguridad
según NOM 018-STPS-2015

Nombre comercial: FARBKONZENTRAT *
SCHWARZ KONZENTRIERT

(se continua en página 7)

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**
En general, la clasificación de la mezcla se basa en el método de cálculo usando los datos del material según el Reglamento (CE) Nº 1272/2008.

· **Persona de contacto:** Abteilung Entwicklung
· **Interlocutor:** Jeweiliger Produktverantwortlicher
· **Abreviaturas y acrónimos:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· *** Datos modificados en relación a la versión anterior**

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

1 Identificación de la sustancia química peligrosa o mezcla y del proveedor o fabricante

· **Identificador del producto**

· **Nombre comercial:** **PURIDUR®-ISOLIERGRUND**
FARBLOS

· **Número del artículo:** L3000697
· **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**
No existen más datos relevantes disponibles.
· **Utilización del producto / de la elaboración** Imprimación

· **Datos del proveedor de la ficha de datos de seguridad**
· **Fabricante/distribuidor:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: +49 (0)711 9804-5
Fax: +49 (0)711 9804-722

· **Área de información:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (solo durante el horario normal de oficina)
msds@votteler.com
· **Teléfono de emergencia:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Identificación de los peligros

· **Clasificación de la sustancia o de la mezcla**

Líq. infl. 3	H226 Líquidos y vapores inflamables.
Tox. ag. 5	H333 Puede ser nocivo si se inhala.
Corrosión/irritación cutánea – Categoría 3	H316 Provoca una leve irritación cutánea.
STOT única 3	H336 Puede provocar somnolencia o vértigo.
Tox. asp. 2	H305 Puede ser nocivo en caso de ingestión y de penetración en las vías respiratorias.

· **Elementos de la etiqueta**
· **Elementos de las etiquetas del SAM**
El producto se ha clasificado y etiquetado de conformidad con el Sistema Globalmente Armonizado (GHS).
· **Pictogramas de peligro**



GHS02 GHS07 GHS08

· **Palabra de advertencia** Atención

· **Componentes peligrosos a indicar en el etiquetaje:**
xileno (mix)
etilbenceno
tolueno
· **Indicaciónes de peligro**
Líquidos y vapores inflamables.
Puede ser nocivo si se inhala.
Provoca una leve irritación cutánea.
Puede provocar somnolencia o vértigo.
Puede ser nocivo en caso de ingestión y de penetración en las vías respiratorias.

(se continua en página 2)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND
FARBLOS

(se continua en página 1)

· ***Consejos de prudencia***
Mantener alejado del calor, superficies calientes, chispas, llamas al descubierto y otras fuentes de ignición. No fumar.
EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.
NO provocar el vómito.
EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].
Guardar bajo llave.
Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
· ***Otros peligros***
· ***Resultados de la valoración PBT y mPmB***
· ***PBT:*** *No aplicable.*
· ***mPmB:*** *No aplicable.*

*
3 Composición / información sobre los componentes

· ***Caracterización química: Mezclas***
· ***Descripción:*** *Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.*

· **Componentes peligrosos:**	
acetato de butilo *Líq. infl. 3, H226; STOT única 3, H336; Tox. ag. 5, H333*	*25-50%*
acetato de 1-metil-2-metoxietilo *Líq. infl. 3, H226; Tox. ag. 5, H333*	*10-25%*
xileno (mix) *Líq. infl. 3, H226; STOT repe. 2, H373; Tox. asp. 1, H304; Tox. ag. 4, H312; Tox. ag. 4, H332; Irrit. cut. 2, H315; STOT única 3, H335*	*5-10%*
etilbenceno *Líq. infl. 2, H225; STOT repe. 2, H373; Tox. asp. 1, H304; Tox. ag. 4, H332; Tox. ag. 5, H303*	*0.5-2.5%*
propilidintrimetanol *Repr. 2, H361*	*<0.5%*

· ***Indicaciones adicionales:***
El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

4 Primeros auxilios

· ***Descripción de los primeros auxilios***
· ***Instrucciones generales:*** *Quitarse de inmediato toda prenda contaminada con el producto.*
· ***En caso de inhalación del producto:*** *Suministrar aire fresco. En caso de trastornos, consultar al médico.*
· ***En caso de contacto con la piel:*** *Lavar inmediatamente con agua.*
· ***En caso de con los ojos:*** *Limpiar los ojos abiertos durante varios minutos con agua corriente.*
· ***En caso de ingestión:*** *Consultar un médico si los trastornos persisten.*
· ***Indicaciones para el médico:***
· ***Principales síntomas y efectos, agudos y retardados*** *No existen más datos relevantes disponibles.*
· ***Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente***
No existen más datos relevantes disponibles.

5 Medidas contra incendios

· ***Medios de extinción***
· ***Sustancias extintoras apropiadas:***
CO2, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.
· ***Sustancias extintoras inapropiadas por razones de seguridad:*** *Agua a pleno chorro*

(se continua en página 3)

Hoja de datos de seguridad
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fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 2)

· ***Peligros específicos derivados de la sustancia o la mezcla*** *No existen más datos relevantes disponibles.*
· ***Recomendaciones para el personal de lucha contra incendios***
· ***Equipo especial de protección:*** *No se requieren medidas especiales.*

6 Medidas que deben tomarse en caso de derrame o fuga accidental

· ***Precauciones personales, equipo de protección y procedimientos de emergencia***
Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.
· ***Precauciones relativas al medio ambiente:***
Impedir que penetre en el alcantarillado, en fosas o en sótanos.
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
· ***Métodos y material de contención y de limpieza:***
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
Desechar el material contaminado como vertido según item 13.
Asegurar suficiente ventilación.
· ***Referencia a otras secciones***
Ver capítulo 7 para mayor información sobre una manipulación segura.
Ver capítulo 8 para mayor información sobre el equipo personal de protección.
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

7 Manejo y almacenamiento

· ***Manipulación:***
· ***Precauciones para una manipulación segura***
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
Evitar la formación de aerosoles.
· ***Prevención de incendios y explosiones:***
Mantener alejadas las fuentes de encendido. No fumar.
Tomar medidas contra las cargas electrostáticas.

· ***Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades***
· ***Almacenamiento:***
· ***Exigencias con respecto al almacén y los recipientes:*** *No se requieren medidas especiales.*
· ***Normas en caso de un almacenamiento conjunto:*** *No es necesario.*
· ***Indicaciones adicionales sobre las condiciones de almacenamiento:***
Mantener el recipiente cerrado herméticamente.
· ***Usos específicos finales*** *No existen más datos relevantes disponibles.*

8 Controles de exposición / protección personal

· ***Parámetros de control***

acetato de butilo

Oral	*LD50*	*14,000 mg/kg (rat)*
Inhalatorio	*LC50/4 h*	*>21 mg/l (rat)*

· ***Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:***

acetato de butilo

VLE (MX)	*VLE-CT o P: 200 ppm* *VLE-PPT: 150 ppm*
PEL (US)	*VLE-PPT: 710 mg/m³, 150 ppm*
REL (US)	*VLE-CT o P: 950 mg/m³, 200 ppm* *VLE-PPT: 710 mg/m³, 150 ppm*
TLV (US)	*VLE-CT o P: 150 ppm* *VLE-PPT: 50 ppm*

(se continua en página 4)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 3)

acetato de 1-metil-2-metoxietilo	
WEEL (US)	VLE-PPT: 50 ppm

xileno (mix)	
VLE (MX)	VLE-CT o P: 150 ppm VLE-PPT: 100 ppm A4, IBE
PEL (US)	VLE-PPT: 435 mg/m³, 100 ppm
REL (US)	VLE-CT o P: 655 mg/m³, 150 ppm VLE-PPT: 435 mg/m³, 100 ppm
TLV (US)	VLE-PPT: 20 ppm BEI, A4

etilbenceno	
VLE (MX)	VLE-PPT: 20 ppm
PEL (US)	VLE-PPT: 435 mg/m³, 100 ppm
REL (US)	VLE-CT o P: 545 mg/m³, 125 ppm VLE-PPT: 435 mg/m³, 100 ppm
TLV (US)	VLE-PPT: 20 ppm OTO, BEI, A3

· **Componentes con valores límite biológicos:**

xileno (mix)	
BEI (US)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

etilbenceno	
BEI (US)	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **Controles de la exposición**
· **Equipo de protección individual:**
· **Medidas generales de protección e higiene:**
Mantener alejado de alimentos, bebidas y alimentos para animales.
Quitarse de inmediato la ropa ensuciada o impregnada.
Lavarse las manos antes de las pausas y al final del trabajo.
· **Protección respiratoria:** Se recomienda protección respiratoria.
· **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
· **Material de los guantes**
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

(se continua en página 5)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 4)

· **Tiempo de penetración del material de los guantes**
Guantes para exposiciones breves/protección contra salpicaduras - lista no exhaustiva
Caucho butílico, espesor > 0,35 mm, tiempo de ruptura: > 30 min
· **Para el contacto permanente de un máximo de 15 minutos son adecuados los guantes compuestos por los siguientes materiales:**
Caucho fluorado (Viton)
· **Para protegerse contra salpicaduras son adecuados los guantes compuestos por los siguientes materiales:**
Guantes de neopreno
· **No son adecuados los guantes compuestos por los siguientes materiales:**
Guantes de piel
Guantes de tela gruesa
· **Protección de ojos:**



Gafas de protección herméticas

*
9 Propiedades físicas y químicas

· **Información sobre propiedades físicas y químicas básicas**	
· **Datos generales**	
· **Aspecto:**	
Forma:	Líquido
Color:	Incoloro
· **Olor:**	Específico
· **Umbral olfativo:**	No determinado.
· **valor pH a 20 °C:**	6-8
· **Cambio de estado**	
Punto de fusión/punto de congelación:	Indeterminado.
Punto inicial de ebullición e intervalo de ebullición:	124-128 °C
· **Punto de inflamación:**	27 °C
· **Inflamabilidad (sólido, gas):**	Inflamable.
· **Temperatura de auto-inflamación:**	315 °C
· **Temperatura de descomposición:**	No determinado.
· **Temperatura de ignición:**	El producto no es autoinflamable.
· **Propiedades explosivas:**	El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.
· **Límites de explosión:**	
Inferior:	1.5 Vol %
Superior:	10.8 Vol %
· **Presión de vapor a 20 °C:**	10.7 hPa
· **Presión de vapor a 50 °C:**	55 hPa
· **Densidad a 20 °C:**	0.97 g/cm³
· **Densidad relativa**	No determinado.
· **Densidad de vapor**	No determinado.
· **Tasa de evaporación:**	No determinado.

(se continua en página 6)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 5)

· **Solubilidad en / miscibilidad con agua:**	Poco o no mezclable.
· **Coeficiente de reparto: n-octanol/agua:**	No determinado.
· **Viscosidad:**	
Dinámica:	No determinado.
Cinemática a 20 °C:	12 s (DIN 53211/4)
· **Concentración del disolvente:**	
Disolventes orgánicos:	70.4 %
VOC	682.4 g/l
· **Otros datos**	No existen más datos relevantes disponibles.

10 Estabilidad y reactividad

· **Reactividad** No existen más datos relevantes disponibles.
· **Estabilidad química**
· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
· **Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
· **Condiciones que deben evitarse** No existen más datos relevantes disponibles.
· **Materiales incompatibles:** No existen más datos relevantes disponibles.
· **Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

11 Información toxicológica

· **Información sobre los efectos toxicológicos**
· **Toxicidad aguda**
· **Efecto estimulante primario:**
· **Corrosión o irritación cutáneas** No produce irritaciones.
· **Lesiones o irritación ocular graves** No produce irritaciones.
· **Sensibilización respiratoria o cutánea** No se conoce ningún efecto sensibilizante.
· **Indicaciones toxicológicas adicionales:**
En conformidad con el procedimiento de cálculo contenido en la última versión de la Normativa General de Clasificación de la CE para Preparados, el producto tiene los siguientes riesgos:

12 Información ecotoxicológica

· **Toxicidad**
· **Toxicidad acuática:** No existen más datos relevantes disponibles.
· **Persistencia y degradabilidad** No existen más datos relevantes disponibles.
· **Comportamiento en sistemas ecológicos:**
· **Potencial de bioacumulación** No existen más datos relevantes disponibles.
· **Movilidad en el suelo** No existen más datos relevantes disponibles.
· **Indicaciones medioambientales adicionales:**
· **Indicaciones generales:**
Nivel de riesgo para el agua 2 (autoclasificación): peligroso para el agua
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
Una cantidad mínima vertida en el subsuelo ya representa un peligro para el agua potable.
· **Resultados de la valoración PBT y mPmB**
· **PBT:** No aplicable.
· **mPmB:** No aplicable.

(se continua en página 7)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 6)

· **Otros efectos adversos** No existen más datos relevantes disponibles.

13 Información relativa a la eliminación de los productos

· **Métodos para el tratamiento de residuos**
· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

· **Embalajes sin limpiar:**
· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

14 Información relativa al transporte

· **Número ONU**	
· **ADR, IMDG, IATA**	UN1263
· **Designación oficial de transporte de las Naciones Unidas**	
· **ADR**	1263 PINTURA
· **IMDG, IATA**	PAINT
· **Clase(s) de peligro para el transporte**	
· **ADR**	



· **Clase**	3 (F1) Líquidos inflamables
· **Etiqueta**	3
· **IMDG, IATA**	



· **Class**	3 Líquidos inflamables
· **Label**	3
· **Grupo de embalaje**	
· **ADR, IMDG, IATA**	III
· **Peligros para el medio ambiente:**	
· **Contaminante marino:**	No
· **Precauciones particulares para los usuarios**	Atención: Líquidos inflamables
· **Número de identificación de peligro (Número Kemler):**	30
· **Número EMS:**	F-E,S-E
· **Stowage Category**	A
· **Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC**	No aplicable.
· **Transporte/datos adicionales:**	
· **ADR**	
· **Cantidades limitadas (LQ)**	5L
· **Cantidades exceptuadas (EQ)**	Código: E1 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 1000 ml

(se continua en página 8)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 7)

· ***Categoria de transporte***	*3*
· ***Código de restricción del túnel***	*D/E*
· ***IMDG***	
· ***Limited quantities (LQ)***	*5L*
· ***Excepted quantities (EQ)***	*Code: E1* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 1000 ml*
· ***"Reglamentación Modelo" de la UNECE:***	*UN 1263 PINTURA, 3, III*

15 Información reglamentaria

· ***Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla***

· ***Directiva 2012/18/UE***
· ***Sustancias peligrosas nominadas - ANEXO I*** *ninguno de los componentes está incluido en una lista*
· ***Categoría Seveso*** *P5c LÍQUIDOS INFLAMABLES*
· ***Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior*** *5,000 t*
· ***Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior*** *50,000 t*
· ***Evaluación de la seguridad química:*** *Una evaluación de la seguridad química no se ha llevado a cabo.*

*
16 Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contratual.

· ***Persona de contacto:*** *Abteilung Entwicklung*
· ***Interlocutor:*** *Jeweiliger Produktverantwortlicher*
· ***Abreviaturas y acrónimos:***
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· **** Datos modificados en relación a la versión anterior***

1 Identification

· **Product identifier**

· **Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ**

· **Article number:** 80024-0-0997
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 3	H226 Flammable liquid and vapor.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
2,4,7,9-tetramethyldec-5-yne-4,7-diol
· **Hazard statements**
Flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

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US

Safety Data Sheet
acc. to OSHA HCS

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
1333-86-4	Carbon black	10-25%
67-63-0	propan-2-ol	5-10%
124-68-5	2-amino-2-methylpropanol	2.5-5%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	<0.5%

· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· **Description of first aid measures**
· **General information:** *Immediately remove any clothing soiled by the product.*
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** *If symptoms persist consult doctor.*
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1333-86-4	Carbon black	9 mg/m³
67-63-0	propan-2-ol	400 ppm
124-68-5	2-amino-2-methylpropanol	17 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	30 mg/m³

· **PAC-2:**		
1333-86-4	Carbon black	99 mg/m³
67-63-0	propan-2-ol	2000* ppm
124-68-5	2-amino-2-methylpropanol	190 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	330 mg/m³

· **PAC-3:**		
1333-86-4	Carbon black	590 mg/m³
67-63-0	propan-2-ol	12000** ppm
124-68-5	2-amino-2-methylpropanol	570 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,000 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

67-63-0 propan-2-ol

Oral	LD50	4,570 mg/kg (rat)
Dermal	LD50	13,400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

· **Ingredients with biological limit values:**

67-63-0 propan-2-ol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Suitable respiratory protective device recommended.

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** *Neoprene gloves*

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:**



Tightly sealed goggles

*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Fluid*
Color:	*Black*
· **Odor:**	*Specific type*
· **Odor threshold:**	*Not determined.*
· **pH-value at 20 °C (68 °F):**	*7-8*
· **Change in condition**	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*82 °C (179.6 °F)*
· **Flash point:**	*33.5 °C (92.3 °F)*
· **Flammability (solid, gaseous):**	*Flammable.*
· **Ignition temperature:**	*425 °C (797 °F)*
· **Decomposition temperature:**	*Not determined.*
· **Auto igniting:**	*Product is not selfigniting.*
· **Danger of explosion:**	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **Explosion limits:**	
Lower:	2 Vol %
Upper:	12 Vol %
· **Vapor pressure at 20 °C (68 °F):**	43 hPa (32.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.025 g/cm³ (8.554 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	14 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	10.0 %
Water:	60.2 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
67-63-0	propan-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **OSHA-Ca (Occupational Safety & Health Administration)**

50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1263
· **UN proper shipping name**	
· **DOT**	Paint related material
· **ADR**	1263 PAINT RELATED MATERIAL
· **IMDG, IATA**	PAINT RELATED MATERIAL
· **Transport hazard class(es)**	
· **DOT**	



· **Class**	3 Flammable liquids
· **Label**	3

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **ADR**



· **Class**	3 (F1) Flammable liquids
· **Label**	3

· **IMDG, IATA**



· **Class**	3 Flammable liquids
· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0	propan-2-ol

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
1333-86-4	Carbon black	ACTIVE
67-63-0	propan-2-ol	ACTIVE
124-68-5	2-amino-2-methylpropanol	ACTIVE
24937-78-8	Ethyl vinyl acetate copolymer	ACTIVE
68131-40-8	sekundärer Alkohol (C11-15), ethoxyliert	ACTIVE
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
67-63-0	propan-2-ol	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/16/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1

· **** Data compared to the previous version altered.***

Printing date 02/18/2023 *Reviewed on 02/18/2023*

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT SCHWARZ**

· **Article number:** 80068-0-0970
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

(Contd. on page 2)

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Trade name: FARBKONZENTRAT SCHWARZ

(Contd. of page 1)

· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

1333-86-4	Carbon black	2.5-5%
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Trade name: FARBKONZENTRAT SCHWARZ

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1333-86-4	Carbon black	9 mg/m³

· **PAC-2:**		
1333-86-4	Carbon black	99 mg/m³

· **PAC-3:**		
1333-86-4	Carbon black	590 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

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Trade name: FARBKONZENTRAT SCHWARZ

(Contd. of page 3)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Black
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.

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Trade name: FARBKONZENTRAT SCHWARZ

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with Water:**	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	0.9 %
Water:	95.6 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

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Trade name: FARBKONZENTRAT SCHWARZ

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· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **DOT, ADR, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

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Trade name: FARBKONZENTRAT SCHWARZ

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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
1333-86-4	Carbon black	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/18/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances

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Trade name: FARBKONZENTRAT SCHWARZ

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ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1

· **** Data compared to the previous version altered.***

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT ROTBRAUN**

· **Article number:** 80068-0-0392
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

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Trade name: FARBKONZENTRAT ROTBRAUN

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· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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Trade name: FARBKONZENTRAT ROTBRAUN

(Contd. of page 2)

· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

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Trade name: FARBKONZENTRAT ROTBRAUN

(Contd. of page 3)

· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:*** *Goggles recommended during refilling.*

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Red*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*7-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*100 °C (212 °F)*
· ***Flash point:***	*>100 °C (>212 °F)*
· ***Flammability (solid, gaseous):***	*Not applicable.*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapor pressure at 20 °C (68 °F):***	*23 hPa (17.3 mm Hg)*
· ***Density at 20 °C (68 °F):***	*1 g/cm³ (8.345 lbs/gal)*
· ***Relative density***	*Not determined.*
· ***Vapor density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with***	
Water:	*Fully miscible.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic at 20 °C (68 °F):	*12 s (DIN 53211/4)*
· ***Solvent content:***	
Organic solvents:	*1.0 %*
Water:	*95.4 %*
· ***Other information***	*No further relevant information available.*

10 Stability and reactivity

· ***Reactivity*** *No further relevant information available.*
· ***Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** *No decomposition if used according to specifications.*

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Trade name: FARBKONZENTRAT ROTBRAUN

(Contd. of page 4)

· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

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Trade name: FARBKONZENTRAT ROTBRAUN

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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
5521-31-3	Pigment Red CI 179	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

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Trade name: FARBKONZENTRAT ROTBRAUN

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· **Cancerogenity categories**

· EPA (Environmental Protection Agency)		
50-00-0	formaldehyde	B1

· TLV (Threshold Limit Value)		
50-00-0	formaldehyde	A2

· MAK (German Maximum Workplace Concentration)		
50-00-0	formaldehyde	4

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/19/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/02/2023 *Reviewed on 01/22/2023*

1 Identification

· **Product identifier**

· **Trade name: PROVOTEC®**

· **Article number:** 89090-0-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Flammable Liquids 3 H226 Flammable liquid and vapor.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02

· **Signal word** Warning
· **Hazard statements**
Flammable liquid and vapor.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

(Contd. on page 2)

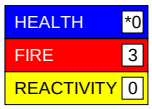
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· **WHMIS-ratings (scale 0 - 4)**



*Health = *0*
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	25-50%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	2.5-5%
220410-74-2	1,4-dihydroxy-2,2,6,6-tetramethylpiperidinium-2-hydroxy-1,2,3-propanetricarboxylate	0.5-2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
64-17-5	ethanol	1,800 ppm

· **PAC-2:**		
64-17-5	ethanol	3300* ppm

· **PAC-3:**		
64-17-5	ethanol	15000* ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
No special precautions are necessary if used correctly.
Use only in well ventilated areas.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** *No special requirements.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:** *Keep receptacle tightly sealed.*
· **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** *No further data; see item 7.*

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** *Suitable respiratory protective device recommended.*

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· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)

· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*

· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves

· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Colorless*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*6-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*78 °C (172.4 °F)*
· ***Flash point:***	*30 °C (86 °F)*
· ***Flammability (solid, gaseous):***	*Flammable.*
· ***Ignition temperature:***	*425 °C (797 °F)*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*
· ***Explosion limits:***	
Lower:	*3.5 Vol %*

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Upper:	15 Vol %
· **Vapor pressure at 20 °C (68 °F):**	59 hPa (44.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	30.4 %
Water:	67.3 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
64-17-5	ethanol	1
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids

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· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol

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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
78-93-3	butanone	I
50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**		
64-17-5	ethanol	A3
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**		
64-17-5	ethanol	5
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/02/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
· *** Data compared to the previous version altered.**

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1 Identification

· **Product identifier**

· **Trade name: HYDROPLUS® BEIZE**
RIVAN BROWN ASH

· **Article number:** HB164BP0V023666
· **Application of the substance / the mixture** Paint

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Acid Black 172
Acid Yellow C.I. 220
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

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Trade name: HYDROPLUS® BEIZE
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· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

107-98-2	1-methoxy-2-propanol	0.5-2.5%
57693-14-8	Acid Black 172	<0.5%
71603-79-7	Acid Yellow C.I. 220	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
107-98-2	1-methoxy-2-propanol	100 ppm

· **PAC-2:**		
107-98-2	1-methoxy-2-propanol	160 ppm

· **PAC-3:**		
107-98-2	1-methoxy-2-propanol	660 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

107-98-2 1-methoxy-2-propanol	
REL	Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm A4

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.

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Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

(Contd. of page 3)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:** Goggles recommended during refilling.

*
9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Brown
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.005 g/cm³ (8.387 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	1.9 %
Water:	96.5 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

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Trade name: HYDROPLUS® BEIZE
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· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number** · **DOT, ADR, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **DOT, ADR, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

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Safety Data Sheet
acc. to OSHA HCS

Printing date 04/24/2023 Reviewed on 04/24/2023

Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
57693-14-8	Acid Black 172	ACTIVE
34590-94-8	Dipropylene glycol monomethyl ether	ACTIVE
72017-66-4	Chromium Complex-Dye, C.I. Acid Red 407	ACTIVE
1333-86-4	Carbon black	ACTIVE
5521-31-3	Pigment Red CI 179	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 04/24/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/24/2023 *Reviewed on 04/24/2023*

Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

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ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· **** Data compared to the previous version altered.***

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/02/2023 *Reviewed on 01/22/2023*

1 Identification

· **Product identifier**

· **Trade name: PROVOTEC®**

· **Article number:** 89090-0-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Flammable Liquids 3 H226 Flammable liquid and vapor.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02

· **Signal word** Warning
· **Hazard statements**
Flammable liquid and vapor.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

(Contd. on page 2)

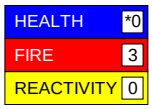
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Trade name: PROVOTEC®

(Contd. of page 1)

· **WHMIS-ratings (scale 0 - 4)**



*Health = *0*
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	25-50%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	2.5-5%
220410-74-2	1,4-dihydroxy-2,2,6,6-tetramethylpiperidinium-2-hydroxy-1,2,3-propanetricarboxylate	0.5-2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Trade name: PROVOTEC®

(Contd. of page 2)

Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· ***Protective Action Criteria for Chemicals***

· **PAC-1:**		
64-17-5	ethanol	1,800 ppm

· **PAC-2:**		
64-17-5	ethanol	3300* ppm

· **PAC-3:**		
64-17-5	ethanol	15000* ppm

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
No special precautions are necessary if used correctly.
Use only in well ventilated areas.
· ***Information about protection against explosions and fires:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *Keep receptacle tightly sealed.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see item 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*

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Trade name: PROVOTEC®

(Contd. of page 3)

· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)

· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*

· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves

· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Colorless*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*6-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*78 °C (172.4 °F)*
· ***Flash point:***	*30 °C (86 °F)*
· ***Flammability (solid, gaseous):***	*Flammable.*
· ***Ignition temperature:***	*425 °C (797 °F)*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*
· ***Explosion limits:***	
Lower:	*3.5 Vol %*

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Trade name: PROVOTEC®

(Contd. of page 4)

Upper:	15 Vol %
· **Vapor pressure at 20 °C (68 °F):**	59 hPa (44.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	30.4 %
Water:	67.3 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
64-17-5	ethanol	1
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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Trade name: PROVOTEC®

(Contd. of page 5)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids

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Safety Data Sheet
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Trade name: PROVOTEC®

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· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol

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Trade name: PROVOTEC®

(Contd. of page 7)

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
78-93-3	butanone	I
50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**		
64-17-5	ethanol	A3
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**		
64-17-5	ethanol	5
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/02/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
· *** Data compared to the previous version altered.**

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT ***
ROT KONZENTRIERT

· **Article number:** 60500-0-0339
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 3	H226 Flammable liquid and vapor.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
1-methoxy-2-propanol
· **Hazard statements**
Flammable liquid and vapor.
May cause drowsiness or dizziness.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2)

Safety Data Sheet
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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

(Contd. of page 1)

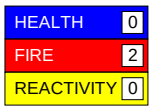
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 2
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 2
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
34590-94-8	Dipropylene glycol monomethyl ether	25-50%
107-98-2	1-methoxy-2-propanol	25-50%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/19/2023 Reviewed on 02/19/2023

Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

(Contd. of page 2)

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
107-98-2	1-methoxy-2-propanol	100 ppm

· **PAC-2:**		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
107-98-2	1-methoxy-2-propanol	160 ppm

· **PAC-3:**		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
107-98-2	1-methoxy-2-propanol	660 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 Dipropylene glycol monomethyl ether	
PEL	Long-term value: 600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin

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Safety Data Sheet
acc. to OSHA HCS

Printing date 02/19/2023 *Reviewed on 02/19/2023*

Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

(Contd. of page 3)

TLV	*Long-term value: 50 ppm*
107-98-2 1-methoxy-2-propanol	
REL	*Short-term value: 540 mg/m³, 150 ppm* *Long-term value: 360 mg/m³, 100 ppm*
TLV	*Short-term value: 100 ppm* *Long-term value: 50 ppm* *A4*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)
· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*
· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***
· ***General Information***
· ***Appearance:***

Form:	*Fluid*
Color:	*Red*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*

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Safety Data Sheet
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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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· **pH-value at 20 °C (68 °F):**	4-6
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	120.3 °C (248.5 °F)
· **Flash point:**	53 °C (127.4 °F)
· **Flammability (solid, gaseous):**	Flammable.
· **Ignition temperature:**	270 °C (518 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	1.1 Vol %
Upper:	~20 Vol %
· **Vapor pressure at 20 °C (68 °F):**	12 hPa (9 mm Hg)
· **Density at 20 °C (68 °F):**	1.02 g/cm³ (8.512 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	13 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	67.5 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1263
· **UN proper shipping name**	
· **DOT**	Paint related material
· **ADR**	1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS
· **IMDG**	PAINT RELATED MATERIAL, MARINE POLLUTANT
· **IATA**	PAINT RELATED MATERIAL

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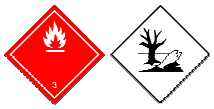
· **Transport hazard class(es)**

· **DOT**



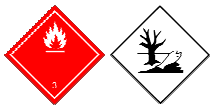
· **Class**	3 Flammable liquids
· **Label**	3

· **ADR**



· **Class**	3 (F1) Flammable liquids
· **Label**	3

· **IMDG**



· **Class**	3 Flammable liquids
· **Label**	3

· **IATA**



· **Class**	3 Flammable liquids
· **Label**	3

· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Trade name: FARBKONZENTRAT *
ROT KONZENTRIERT

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*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** *Abteilung Entwicklung*
· **Contact:** *Jeweiliger Produktverantwortlicher*
· **Date of preparation / last revision** *02/19/2023*
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**

VOTTELER

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/05/2023 *Reviewed on 10/05/2023*

1 Identification

· **Product identifier**

· **Trade name: HYDROPLUS® BEIZE**
HONDA MDX SMOKED OLIVE ASH

· **Article number:** HB164BP0V007115
· **Application of the substance / the mixture** Paint

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

*

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Reactive Brown 11
Acid Black 172
Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl) azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

(Contd. of page 1)

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
12225-68-2	Reactive Brown 11	<0.5%
57693-14-8	Acid Black 172	<0.5%
79828-43-6	Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)	<0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about protection against explosions and fires:*** *No special measures required.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *None.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see section 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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application.
· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)
· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*
· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:*** *Goggles recommended during refilling.*

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Dark grey*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*7-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*100 °C (212 °F)*
· ***Flash point:***	*>100 °C (>212 °F)*
· ***Flammability (solid, gaseous):***	*Not applicable.*
· ***Decomposition temperature:***	*Not determined.*
· ***Ignition temperature:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapor pressure at 20 °C (68 °F):***	*23 hPa (17.3 mm Hg)*
· ***Density at 20 °C (68 °F):***	*1 g/cm³ (8.345 lbs/gal)*
· ***Relative density***	*Not determined.*
· ***Vapor density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with***	
Water:	*Fully miscible.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic at 20 °C (68 °F):	*12 s (DIN 53211/4)*
· ***Solvent content:***	
Organic solvents:	*0.7 %*
Water:	*98.0 %*

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Safety Data Sheet
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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

*

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
1333-86-4	Carbon black	ACTIVE
57693-14-8	Acid Black 172	ACTIVE
79828-43-6	Pentasodium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]chromate(5-)	ACTIVE
57-55-6	Propylene glycol	ACTIVE

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Trade name: HYDROPLUS® BEIZE
HONDA MDX SMOKED OLIVE ASH

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· ***Hazardous Air Pollutants***

50-00-0	formaldehyde

· ***Proposition 65***

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients is listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients is listed.

· ***Cancerogenity categories***

· ***EPA (Environmental Protection Agency)***

50-00-0	formaldehyde	B1

· ***TLV (Threshold Limit Value)***

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· ***MAK (German Maximum Workplace Concentration)***

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· ***NIOSH-Ca (National Institute for Occupational Safety and Health)***

1333-86-4	Carbon black
50-00-0	formaldehyde

· ***Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Classification according to Regulation (EC) No 1272/2008***
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· ***Department issuing SDS:*** *Abteilung Entwicklung*
· ***Contact:*** *Jeweiliger Produktverantwortlicher*
· ***Date of preparation / last revision*** *10/05/2023*
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· **** Data compared to the previous version altered.***

1 Identification

· **Product identifier**

· **Trade name: PURIDUR®-LACK FARBLOS, SATIN**

· **Article number:** 33179-4-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
n-butyl acetate
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
acetone
ethyl acetate
BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1
BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2
· **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.

(Contd. on page 2)

Safety Data Sheet
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Trade name: PURIDUR®-LACK FARBLOS, SATIN

(Contd. of page 1)

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
123-86-4	n-butyl acetate	50-100%
67-64-1	acetone	10-25%
141-78-6	ethyl acetate	5-10%
1065336-91-5	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.5-2.5%

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Trade name: PURIDUR®-LACK
FARBLOS, SATIN

(Contd. of page 2)

104810-47-1	BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1	<0.5%
104810-48-2	BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2	<0.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
123-86-4	n-butyl acetate	5 ppm
67-64-1	acetone	200 ppm
141-78-6	ethyl acetate	1,200 ppm

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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· **PAC-2:**		
123-86-4	n-butyl acetate	200 ppm
67-64-1	acetone	3200* ppm
141-78-6	ethyl acetate	1,700 ppm

· **PAC-3:**		
123-86-4	n-butyl acetate	3000* ppm
67-64-1	acetone	5700* ppm
141-78-6	ethyl acetate	10000** ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

123-86-4 n-butyl acetate		
Oral	LD50	14,000 mg/kg (rat)
Inhalative	LC50/4 h	>21 mg/l (rat)

· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm

67-64-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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141-78-6 ethyl acetate	
PEL	Long-term value: 1400 mg/m³, 400 ppm
REL	Long-term value: 1400 mg/m³, 400 ppm
TLV	Long-term value: 400 ppm

· **Ingredients with biological limit values:**

67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Suitable respiratory protective device recommended.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
· **Eye protection:**



Tightly sealed goggles

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Colorless
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	6-8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55.8-56.6 °C (132.4-133.9 °F)
· **Flash point:**	-18 °C (-0.4 °F)
· **Flammability (solid, gaseous):**	Highly flammable.
· **Ignition temperature:**	370 °C (698 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	2.1 Vol %
Upper:	13 Vol %
· **Vapor pressure at 20 °C (68 °F):**	233 hPa (174.8 mm Hg)
· **Density at 20 °C (68 °F):**	0.91 g/cm³ (7.594 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	33 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	81.2 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

(Contd. of page 6)

· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1330-20-7	xylene (mix)	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids
· **Label** 3

· **Packing group**
· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**
· **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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· **ADR**	
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

71-36-3	butanol

· **TSCA (Toxic Substances Control Act):**

123-86-4	n-butyl acetate	ACTIVE
67-64-1	acetone	ACTIVE
141-78-6	ethyl acetate	ACTIVE
9004-36-8	Celluloseacetobutyrate	ACTIVE
8002-74-2	Paraffin waxes and Hydrocarbon waxes	ACTIVE
71-36-3	butanol	ACTIVE
104810-47-1	BENZOTRIAZOLE DERIVATIVE CAS 104810-47-1	ACTIVE
104810-48-2	BENZOTRIAZOLE DERIVATIVE CAS 104810-48-2	ACTIVE

· **Hazardous Air Pollutants**

1330-20-7	xylene (mix)
100-41-4	ethylbenzene
108-88-3	toluene

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
71-36-3	butanol	D

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Trade name: PURIDUR®-LACK FARBLOS, SATIN

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1330-20-7	xylene (mix)	I
100-41-4	ethylbenzene	D
108-88-3	toluene	II

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
1330-20-7	xylene (mix)	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4

· **MAK (German Maximum Workplace Concentration)**

100-41-4	ethylbenzene	3A

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/23/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**

VOTTELER

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/18/2023 *Reviewed on 02/18/2023*

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT WEISS**

· **Article number:** 68020-0-0163
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
2-octyl-2H-isothiazol-3-one
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/18/2023 *Reviewed on 02/18/2023*

Trade name: FARBKONZENTRAT WEISS

(Contd. of page 1)

· **WHMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
1569-02-4	1-ethoxypropan-2-ol	0.5-2.5%
26530-20-1	2-octyl-2H-isothiazol-3-one	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/18/2023 *Reviewed on 02/18/2023*

Trade name: FARBKONZENTRAT WEISS

(Contd. of page 2)

Ensure adequate ventilation.
· ***Reference to other sections***
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about protection against explosions and fires:*** *No special measures required.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *None.*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see item 7.*

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

1569-02-4 1-ethoxypropan-2-ol	
REL	*Skin*
TLV	*Short-term value: 200 ppm* *Long-term value: 50 ppm* *Skin*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· ***Breathing equipment:*** *Suitable respiratory protective device recommended.*
· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	White
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	371 °C (699.8 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.18 g/cm³ (9.847 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	15 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	2.5 %

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Water:	68.1 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
13463-67-7	titanium dioxide	2B
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
867040-07-1	aspartic acid, N-(3-carboxy-1-oxo-sulfopropyl)-N-(C16-C18 (even numbered), C18 unsaturated alkyl) tetrasodium salts	ACTIVE
15647-11-7	3-aminomethyl-3,5,5-trimethylcyclohexan-1-ol	ACTIVE
1302-78-9	Bentonite	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

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· **Proposition 65**

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

13463-67-7	titanium dioxide	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/18/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

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1 Identificación de la sustancia química peligrosa o mezcla y del proveedor o fabricante

· **Identificador del producto**

· **Nombre comercial:** **FARBKONZENTRAT ***
SCHWARZ KONZENTRIERT

· **Número del artículo:** 60500-0-0989
· **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**
No existen más datos relevantes disponibles.
· **Utilización del producto / de la elaboración** Pasta para matizar

· **Datos del proveedor de la ficha de datos de seguridad**
· **Fabricante/distribuidor:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: +49 (0)711 9804-5
Fax: +49 (0)711 9804-722

· **Área de información:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (solo durante el horario normal de oficina)
msds@votteler.com
· **Teléfono de emergencia:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Identificación de los peligros

· **Clasificación de la sustancia o de la mezcla**

Líq. infl. 3	H226 Líquidos y vapores inflamables.
Irrit. oc. 2A	H319 Provoca irritación ocular grave.
Sens. cut. 1	H317 Puede provocar una reacción alérgica en la piel.
STOT única 3	H336 Puede provocar somnolencia o vértigo.

· **Elementos de la etiqueta**
· **Elementos de las etiquetas del SAM**
El producto se ha clasificado y etiquetado de conformidad con el Sistema Globalmente Armonizado (GHS).
· **Pictogramas de peligro**



GHS02 GHS07

· **Palabra de advertencia** Atención

· **Componentes peligrosos a indicar en el etiquetaje:**
Acid Black 172
1-metoxi-2-propanol
· **Indicaciónes de peligro**
Líquidos y vapores inflamables.
Provoca irritación ocular grave.
Puede provocar una reacción alérgica en la piel.
Puede provocar somnolencia o vértigo.
· **Consejos de prudencia**
Mantener alejado del calor, superficies calientes, chispas, llamas al descubierto y otras fuentes de ignición.
No fumar.
Utilizar material [eléctrico/ de ventilación/iluminación] antideflagrante.

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EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].
EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
Guardar bajo llave.
Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
· ***Otros peligros***
· ***Resultados de la valoración PBT y mPmB***
· ***PBT:*** *No aplicable.*
· ***mPmB:*** *No aplicable.*

3 Composición / información sobre los componentes

· ***Caracterización química: Mezclas***
· ***Descripción:*** *Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.*

· **Componentes peligrosos:**		
1-metoxi-2-propanol	Líq. infl. 3, H226; STOT única 3, H336; Tox. ag. 5, H303	50-100%
Acid Black 172	Irrit. oc. 2A, H319; Sens. cut. 1, H317	25-50%

· ***Indicaciones adicionales:***
El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

4 Primeros auxilios

· ***Descripción de los primeros auxilios***
· ***Instrucciones generales:*** *Quitarse de inmediato toda prenda contaminada con el producto.*
· ***En caso de inhalación del producto:***
Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.
Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
· ***En caso de contacto con la piel:***
Lavar inmediatamente con agua y jabón y enjuagar bien.
Lavar inmediatamente con agua.
· ***En caso de con los ojos:***
Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.
· ***En caso de ingestión:*** *Consultar un médico si los trastornos persisten.*
· ***Indicaciones para el médico:***
· ***Principales síntomas y efectos, agudos y retardados*** *No existen más datos relevantes disponibles.*
· ***Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente***
No existen más datos relevantes disponibles.

5 Medidas contra incendios

· ***Medios de extinción***
· ***Sustancias extintoras apropiadas:***
CO2, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.
· ***Sustancias extintoras inapropiadas por razones de seguridad:*** *Agua a pleno chorro*
· ***Peligros específicos derivados de la sustancia o la mezcla*** *No existen más datos relevantes disponibles.*
· ***Recomendaciones para el personal de lucha contra incendios***
· ***Equipo especial de protección:*** *No se requieren medidas especiales.*

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6 Medidas que deben tomarse en caso de derrame o fuga accidental

· ***Precauciones personales, equipo de protección y procedimientos de emergencia***
Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.
· ***Precauciones relativas al medio ambiente:***
Impedir que penetre en el alcantarillado, en fosas o en sótanos.
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
· ***Métodos y material de contención y de limpieza:***
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
Desechar el material contaminado como vertido según item 13.
Asegurar suficiente ventilación.
· ***Referencia a otras secciones***
Ver capítulo 7 para mayor información sobre una manipulación segura.
Ver capítulo 8 para mayor información sobre el equipo personal de protección.
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

7 Manejo y almacenamiento

· ***Manipulación:***
· ***Precauciones para una manipulación segura***
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
Evitar la formación de aerosoles.
· ***Prevención de incendios y explosiones:***
Mantener alejadas las fuentes de encendido. No fumar.
Tomar medidas contra las cargas electrostáticas.

· ***Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades***
· ***Almacenamiento:***
· ***Exigencias con respecto al almacén y los recipientes:*** *No se requieren medidas especiales.*
· ***Normas en caso de un almacenamiento conjunto:*** *No es necesario.*
· ***Indicaciones adicionales sobre las condiciones de almacenamiento:***
Mantener el recipiente cerrado herméticamente.
· ***Usos específicos finales*** *No existen más datos relevantes disponibles.*

8 Controles de exposición / protección personal

· ***Parámetros de control***

· ***Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:***	
1-metoxi-2-propanol	
VLE (MX)	*VLE-CT o P: 150 ppm* *VLE-PPT: 100 ppm*
REL (US)	*VLE-CT o P: 540 mg/m³, 150 ppm* *VLE-PPT: 360 mg/m³, 100 ppm*
TLV (US)	*VLE-CT o P: 100 ppm* *VLE-PPT: 50 ppm* *A4*

· ***Controles de la exposición***
· ***Equipo de protección individual:***
· ***Medidas generales de protección e higiene:***
Mantener alejado de alimentos, bebidas y alimentos para animales.
Quitarse de inmediato la ropa ensuciada o impregnada.
Lavarse las manos antes de las pausas y al final del trabajo.
Evitar el contacto con los ojos.
Evitar el contacto con los ojos y la piel.

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· ***Protección respiratoria:*** *Se recomienda protección respiratoria.*
· ***Protección de manos:***



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
· ***Material de los guantes***
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.
· ***Tiempo de penetración del material de los guantes***
Guantes para exposiciones breves/protección contra salpicaduras - lista no exhaustiva
Caucho butílico, espesor > 0,35 mm, tiempo de ruptura: > 30 min
· ***Para el contacto permanente de un máximo de 15 minutos son adecuados los guantes compuestos por los siguientes materiales:***
Caucho fluorado (Viton)
· ***Para protegerse contra salpicaduras son adecuados los guantes compuestos por los siguientes materiales:***
Guantes de neopreno

· ***No son adecuados los guantes compuestos por los siguientes materiales:***
Guantes de piel
Guantes de tela gruesa
· ***Protección de ojos:***



Gafas de protección herméticas

9 Propiedades físicas y químicas

· ***Información sobre propiedades físicas y químicas básicas***	
· ***Datos generales***	
· ***Aspecto:***	
Forma:	*Líquido*
Color:	*Negro*
· ***Olor:***	*Específico*
· ***Umbral olfativo:***	*No determinado.*
· ***valor pH a 20 °C:***	*6-8*
· ***Cambio de estado***	
Punto de fusión/punto de congelación:	*Indeterminado.*
Punto inicial de ebullición e intervalo de ebullición:	*120.3 °C*
· ***Punto de inflamación:***	*35 °C*
· ***Inflamabilidad (sólido, gas):***	*Inflamable.*
· ***Temperatura de auto-inflamación:***	*270 °C*
· ***Temperatura de descomposición:***	*No determinado.*

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· **Temperatura de ignición:**	El producto no es autoinflamable.
· **Propiedades explosivas:**	El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.
· **Límites de explosión:**	
Inferior:	2.3 Vol %
Superior:	~20 Vol %
· **Presión de vapor a 20 °C:**	12 hPa
· **Densidad a 20 °C:**	1.02 g/cm³
· **Densidad relativa**	No determinado.
· **Densidad de vapor**	No determinado.
· **Tasa de evaporación:**	No determinado.
· **Solubilidad en / miscibilidad con agua:**	Poco o no mezclable.
· **Coeficiente de reparto: n-octanol/agua:**	No determinado.
· **Viscosidad:**	
Dinámica:	No determinado.
Cinemática a 20 °C:	13 s (DIN 53211/4)
· **Concentración del disolvente:**	
Disolventes orgánicos:	62.0 %
VOC	632.4 g/l
· **Otros datos**	No existen más datos relevantes disponibles.

10 Estabilidad y reactividad

· **Reactividad** No existen más datos relevantes disponibles.
· **Estabilidad química**
· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
· **Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
· **Condiciones que deben evitarse** No existen más datos relevantes disponibles.
· **Materiales incompatibles:** No existen más datos relevantes disponibles.
· **Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

11 Información toxicológica

· **Información sobre los efectos toxicológicos**
· **Toxicidad aguda**
· **Efecto estimulante primario:**
· **Corrosión o irritación cutáneas** No produce irritaciones.
· **Lesiones o irritación ocular graves** Produce irritaciones.
· **Sensibilización respiratoria o cutánea** Posible sensibilización al entrar en contacto con la piel.
· **Indicaciones toxicológicas adicionales:**
En conformidad con el procedimiento de cálculo contenido en la última versión de la Normativa General de Clasificación de la CE para Preparados, el producto tiene los siguientes riesgos:
Irritante

12 Información ecotoxicológica

· **Toxicidad**
· **Toxicidad acuática:** No existen más datos relevantes disponibles.

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· **Persistencia y degradabilidad** No existen más datos relevantes disponibles.
· **Comportamiento en sistemas ecológicos:**
· **Potencial de bioacumulación** No existen más datos relevantes disponibles.
· **Movilidad en el suelo** No existen más datos relevantes disponibles.
· **Indicaciones medioambientales adicionales:**
· **Indicaciones generales:**
Nivel de riesgo para el agua 2 (autoclasificación): peligroso para el agua
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
Una cantidad mínima vertida en el subsuelo ya representa un peligro para el agua potable.
· **Resultados de la valoración PBT y mPmB**
· **PBT:** No aplicable.
· **mPmB:** No aplicable.
· **Otros efectos adversos** No existen más datos relevantes disponibles.

13 Información relativa a la eliminación de los productos

· **Métodos para el tratamiento de residuos**
· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

· **Embalajes sin limpiar:**
· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

14 Información relativa al transporte

· **Número ONU**	
· **ADR, IMDG, IATA**	UN1263
· **Designación oficial de transporte de las Naciones Unidas**	
· **ADR**	1263 PRODUCTOS PARA PINTURA
· **IMDG**	PAINT RELATED MATERIAL, MARINE POLLUTANT
· **IATA**	PAINT RELATED MATERIAL
· **Clase(s) de peligro para el transporte**	
· **ADR**	



· **Clase**	3 (F1) Líquidos inflamables
· **Etiqueta**	3
· **IMDG**	



· **Class**	3 Líquidos inflamables
· **Label**	3
· **IATA**	



· **Class**	3 Líquidos inflamables

(se continua en página 7)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 27.09.2023 *Número de versión 56* *Revisión: 19.01.2023*

Nombre comercial: FARBKONZENTRAT *
SCHWARZ KONZENTRIERT

(se continua en página 6)

· **Label**	3
· **Grupo de embalaje**	
· **ADR, IMDG, IATA**	III
· **Peligros para el medio ambiente:**	El producto contiene materias peligrosas para el medio ambiente: Acid Black 172
· **Contaminante marino:**	Sí
· **Marcado especial (ADR):**	Símbolo (pez y árbol) Símbolo (pez y árbol)
· **Precauciones particulares para los usuarios**	Atención: Líquidos inflamables
· **Número de identificación de peligro (Número Kemler):**	30
· **Número EMS:**	F-E,S-E
· **Stowage Category**	A
· **Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC**	No aplicable.
· **Transporte/datos adicionales:**	
· **ADR**	
· **Cantidades limitadas (LQ)**	5L
· **Cantidades exceptuadas (EQ)**	Código: E1 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 1000 ml
· **Categoria de transporte**	3
· **Código de restricción del túnel**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **"Reglamentación Modelo" de la UNECE:**	UN 1263 PRODUCTOS PARA PINTURA, 3, III, PELIGROSO PARA EL MEDIO AMBIENTE

15 Información reglamentaria

· **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

· **Directiva 2012/18/UE**
· **Sustancias peligrosas nominadas - ANEXO I** ninguno de los componentes está incluido en una lista
· **Categoría Seveso**
E2 Peligroso para el medio ambiente acuático
P5c LÍQUIDOS INFLAMABLES
· **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 200 t
· **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 500 t
· **Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

*

16 Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contratual.

(se continua en página 8)

Hoja de datos de seguridad
según NOM 018-STPS-2015

Nombre comercial: FARBKONZENTRAT *
SCHWARZ KONZENTRIERT

(se continua en página 7)

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**
En general, la clasificación de la mezcla se basa en el método de cálculo usando los datos del material según el Reglamento (CE) Nº 1272/2008.

· **Persona de contacto:** Abteilung Entwicklung
· **Interlocutor:** Jeweiliger Produktverantwortlicher
· **Abreviaturas y acrónimos:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· *** Datos modificados en relación a la versión anterior**

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

1 Identificación de la sustancia química peligrosa o mezcla y del proveedor o fabricante

· **Identificador del producto**

· **Nombre comercial:** **PURIDUR®-ISOLIERGRUND**
FARBLOS

· **Número del artículo:** L3000697
· **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**
No existen más datos relevantes disponibles.
· **Utilización del producto / de la elaboración** Imprimación

· **Datos del proveedor de la ficha de datos de seguridad**
· **Fabricante/distribuidor:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: +49 (0)711 9804-5
Fax: +49 (0)711 9804-722

· **Área de información:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (solo durante el horario normal de oficina)
msds@votteler.com
· **Teléfono de emergencia:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Identificación de los peligros

· **Clasificación de la sustancia o de la mezcla**

Líq. infl. 3	H226 Líquidos y vapores inflamables.
Tox. ag. 5	H333 Puede ser nocivo si se inhala.
Corrosión/irritación cutánea – Categoría 3	H316 Provoca una leve irritación cutánea.
STOT única 3	H336 Puede provocar somnolencia o vértigo.
Tox. asp. 2	H305 Puede ser nocivo en caso de ingestión y de penetración en las vías respiratorias.

· **Elementos de la etiqueta**
· **Elementos de las etiquetas del SAM**
El producto se ha clasificado y etiquetado de conformidad con el Sistema Globalmente Armonizado (GHS).
· **Pictogramas de peligro**



GHS02 GHS07 GHS08

· **Palabra de advertencia** Atención

· **Componentes peligrosos a indicar en el etiquetaje:**
xileno (mix)
etilbenceno
tolueno
· **Indicaciónes de peligro**
Líquidos y vapores inflamables.
Puede ser nocivo si se inhala.
Provoca una leve irritación cutánea.
Puede provocar somnolencia o vértigo.
Puede ser nocivo en caso de ingestión y de penetración en las vías respiratorias.

(se continua en página 2)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND
FARBLOS

(se continua en página 1)

· ***Consejos de prudencia***
Mantener alejado del calor, superficies calientes, chispas, llamas al descubierto y otras fuentes de ignición. No fumar.
EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.
NO provocar el vómito.
EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].
Guardar bajo llave.
Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
· ***Otros peligros***
· ***Resultados de la valoración PBT y mPmB***
· ***PBT:*** *No aplicable.*
· ***mPmB:*** *No aplicable.*

*
3 Composición / información sobre los componentes

· ***Caracterización química: Mezclas***
· ***Descripción:*** *Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.*

· **Componentes peligrosos:**	
acetato de butilo *Líq. infl. 3, H226; STOT única 3, H336; Tox. ag. 5, H333*	*25-50%*
acetato de 1-metil-2-metoxietilo *Líq. infl. 3, H226; Tox. ag. 5, H333*	*10-25%*
xileno (mix) *Líq. infl. 3, H226; STOT repe. 2, H373; Tox. asp. 1, H304; Tox. ag. 4, H312; Tox. ag. 4, H332; Irrit. cut. 2, H315; STOT única 3, H335*	*5-10%*
etilbenceno *Líq. infl. 2, H225; STOT repe. 2, H373; Tox. asp. 1, H304; Tox. ag. 4, H332; Tox. ag. 5, H303*	*0.5-2.5%*
propilidintrimetanol *Repr. 2, H361*	*<0.5%*

· ***Indicaciones adicionales:***
El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

4 Primeros auxilios

· ***Descripción de los primeros auxilios***
· ***Instrucciones generales:*** *Quitarse de inmediato toda prenda contaminada con el producto.*
· ***En caso de inhalación del producto:*** *Suministrar aire fresco. En caso de trastornos, consultar al médico.*
· ***En caso de contacto con la piel:*** *Lavar inmediatamente con agua.*
· ***En caso de con los ojos:*** *Limpiar los ojos abiertos durante varios minutos con agua corriente.*
· ***En caso de ingestión:*** *Consultar un médico si los trastornos persisten.*
· ***Indicaciones para el médico:***
· ***Principales síntomas y efectos, agudos y retardados*** *No existen más datos relevantes disponibles.*
· ***Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente***
No existen más datos relevantes disponibles.

5 Medidas contra incendios

· ***Medios de extinción***
· ***Sustancias extintoras apropiadas:***
CO2, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.
· ***Sustancias extintoras inapropiadas por razones de seguridad:*** *Agua a pleno chorro*

(se continua en página 3)

Hoja de datos de seguridad
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Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 2)

· ***Peligros específicos derivados de la sustancia o la mezcla*** *No existen más datos relevantes disponibles.*
· ***Recomendaciones para el personal de lucha contra incendios***
· ***Equipo especial de protección:*** *No se requieren medidas especiales.*

6 Medidas que deben tomarse en caso de derrame o fuga accidental

· ***Precauciones personales, equipo de protección y procedimientos de emergencia***
Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.
· ***Precauciones relativas al medio ambiente:***
Impedir que penetre en el alcantarillado, en fosas o en sótanos.
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
· ***Métodos y material de contención y de limpieza:***
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
Desechar el material contaminado como vertido según item 13.
Asegurar suficiente ventilación.
· ***Referencia a otras secciones***
Ver capítulo 7 para mayor información sobre una manipulación segura.
Ver capítulo 8 para mayor información sobre el equipo personal de protección.
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

7 Manejo y almacenamiento

· ***Manipulación:***
· ***Precauciones para una manipulación segura***
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
Evitar la formación de aerosoles.
· ***Prevención de incendios y explosiones:***
Mantener alejadas las fuentes de encendido. No fumar.
Tomar medidas contra las cargas electrostáticas.

· ***Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades***
· ***Almacenamiento:***
· ***Exigencias con respecto al almacén y los recipientes:*** *No se requieren medidas especiales.*
· ***Normas en caso de un almacenamiento conjunto:*** *No es necesario.*
· ***Indicaciones adicionales sobre las condiciones de almacenamiento:***
Mantener el recipiente cerrado herméticamente.
· ***Usos específicos finales*** *No existen más datos relevantes disponibles.*

8 Controles de exposición / protección personal

· ***Parámetros de control***

acetato de butilo

Oral	*LD50*	*14,000 mg/kg (rat)*
Inhalatorio	*LC50/4 h*	*>21 mg/l (rat)*

· ***Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:***

acetato de butilo

VLE (MX)	*VLE-CT o P: 200 ppm* *VLE-PPT: 150 ppm*
PEL (US)	*VLE-PPT: 710 mg/m³, 150 ppm*
REL (US)	*VLE-CT o P: 950 mg/m³, 200 ppm* *VLE-PPT: 710 mg/m³, 150 ppm*
TLV (US)	*VLE-CT o P: 150 ppm* *VLE-PPT: 50 ppm*

(se continua en página 4)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 3)

acetato de 1-metil-2-metoxietilo	
WEEL (US)	VLE-PPT: 50 ppm

xileno (mix)	
VLE (MX)	VLE-CT o P: 150 ppm VLE-PPT: 100 ppm A4, IBE
PEL (US)	VLE-PPT: 435 mg/m³, 100 ppm
REL (US)	VLE-CT o P: 655 mg/m³, 150 ppm VLE-PPT: 435 mg/m³, 100 ppm
TLV (US)	VLE-PPT: 20 ppm BEI, A4

etilbenceno	
VLE (MX)	VLE-PPT: 20 ppm
PEL (US)	VLE-PPT: 435 mg/m³, 100 ppm
REL (US)	VLE-CT o P: 545 mg/m³, 125 ppm VLE-PPT: 435 mg/m³, 100 ppm
TLV (US)	VLE-PPT: 20 ppm OTO, BEI, A3

· **Componentes con valores límite biológicos:**

xileno (mix)	
BEI (US)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

etilbenceno	
BEI (US)	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **Controles de la exposición**
· **Equipo de protección individual:**
· **Medidas generales de protección e higiene:**
Mantener alejado de alimentos, bebidas y alimentos para animales.
Quitarse de inmediato la ropa ensuciada o impregnada.
Lavarse las manos antes de las pausas y al final del trabajo.
· **Protección respiratoria:** Se recomienda protección respiratoria.
· **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
· **Material de los guantes**
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

(se continua en página 5)

Hoja de datos de seguridad
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fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 4)

· **Tiempo de penetración del material de los guantes**
Guantes para exposiciones breves/protección contra salpicaduras - lista no exhaustiva
Caucho butílico, espesor > 0,35 mm, tiempo de ruptura: > 30 min
· **Para el contacto permanente de un máximo de 15 minutos son adecuados los guantes compuestos por los siguientes materiales:**
Caucho fluorado (Viton)
· **Para protegerse contra salpicaduras son adecuados los guantes compuestos por los siguientes materiales:**
Guantes de neopreno
· **No son adecuados los guantes compuestos por los siguientes materiales:**
Guantes de piel
Guantes de tela gruesa
· **Protección de ojos:**



Gafas de protección herméticas

*
9 Propiedades físicas y químicas

· **Información sobre propiedades físicas y químicas básicas**	
· **Datos generales**	
· **Aspecto:**	
Forma:	Líquido
Color:	Incoloro
· **Olor:**	Específico
· **Umbral olfativo:**	No determinado.
· **valor pH a 20 °C:**	6-8
· **Cambio de estado**	
Punto de fusión/punto de congelación:	Indeterminado.
Punto inicial de ebullición e intervalo de ebullición:	124-128 °C
· **Punto de inflamación:**	27 °C
· **Inflamabilidad (sólido, gas):**	Inflamable.
· **Temperatura de auto-inflamación:**	315 °C
· **Temperatura de descomposición:**	No determinado.
· **Temperatura de ignición:**	El producto no es autoinflamable.
· **Propiedades explosivas:**	El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.
· **Límites de explosión:**	
Inferior:	1.5 Vol %
Superior:	10.8 Vol %
· **Presión de vapor a 20 °C:**	10.7 hPa
· **Presión de vapor a 50 °C:**	55 hPa
· **Densidad a 20 °C:**	0.97 g/cm³
· **Densidad relativa**	No determinado.
· **Densidad de vapor**	No determinado.
· **Tasa de evaporación:**	No determinado.

(se continua en página 6)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 5)

· **Solubilidad en / miscibilidad con agua:**	Poco o no mezclable.
· **Coeficiente de reparto: n-octanol/agua:**	No determinado.
· **Viscosidad:**	
Dinámica:	No determinado.
Cinemática a 20 °C:	12 s (DIN 53211/4)
· **Concentración del disolvente:**	
Disolventes orgánicos:	70.4 %
VOC	682.4 g/l
· **Otros datos**	No existen más datos relevantes disponibles.

10 Estabilidad y reactividad

· **Reactividad** No existen más datos relevantes disponibles.
· **Estabilidad química**
· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
· **Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
· **Condiciones que deben evitarse** No existen más datos relevantes disponibles.
· **Materiales incompatibles:** No existen más datos relevantes disponibles.
· **Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

11 Información toxicológica

· **Información sobre los efectos toxicológicos**
· **Toxicidad aguda**
· **Efecto estimulante primario:**
· **Corrosión o irritación cutáneas** No produce irritaciones.
· **Lesiones o irritación ocular graves** No produce irritaciones.
· **Sensibilización respiratoria o cutánea** No se conoce ningún efecto sensibilizante.
· **Indicaciones toxicológicas adicionales:**
En conformidad con el procedimiento de cálculo contenido en la última versión de la Normativa General de Clasificación de la CE para Preparados, el producto tiene los siguientes riesgos:

12 Información ecotoxicológica

· **Toxicidad**
· **Toxicidad acuática:** No existen más datos relevantes disponibles.
· **Persistencia y degradabilidad** No existen más datos relevantes disponibles.
· **Comportamiento en sistemas ecológicos:**
· **Potencial de bioacumulación** No existen más datos relevantes disponibles.
· **Movilidad en el suelo** No existen más datos relevantes disponibles.
· **Indicaciones medioambientales adicionales:**
· **Indicaciones generales:**
Nivel de riesgo para el agua 2 (autoclasificación): peligroso para el agua
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
Una cantidad mínima vertida en el subsuelo ya representa un peligro para el agua potable.
· **Resultados de la valoración PBT y mPmB**
· **PBT:** No aplicable.
· **mPmB:** No aplicable.

(se continua en página 7)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 6)

· **Otros efectos adversos** No existen más datos relevantes disponibles.

13 Información relativa a la eliminación de los productos

· **Métodos para el tratamiento de residuos**
· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

· **Embalajes sin limpiar:**
· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

14 Información relativa al transporte

· **Número ONU**	
· **ADR, IMDG, IATA**	UN1263
· **Designación oficial de transporte de las Naciones Unidas**	
· **ADR**	1263 PINTURA
· **IMDG, IATA**	PAINT
· **Clase(s) de peligro para el transporte**	
· **ADR**	



· **Clase**	3 (F1) Líquidos inflamables
· **Etiqueta**	3
· **IMDG, IATA**	



· **Class**	3 Líquidos inflamables
· **Label**	3
· **Grupo de embalaje**	
· **ADR, IMDG, IATA**	III
· **Peligros para el medio ambiente:**	
· **Contaminante marino:**	No
· **Precauciones particulares para los usuarios**	Atención: Líquidos inflamables
· **Número de identificación de peligro (Número Kemler):**	30
· **Número EMS:**	F-E,S-E
· **Stowage Category**	A
· **Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC**	No aplicable.
· **Transporte/datos adicionales:**	
· **ADR**	
· **Cantidades limitadas (LQ)**	5L
· **Cantidades exceptuadas (EQ)**	Código: E1 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 1000 ml

(se continua en página 8)

Hoja de datos de seguridad
según NOM 018-STPS-2015

fecha de impresión 16.10.2023 *Número de versión 68* *Revisión: 16.10.2023*

Nombre comercial: PURIDUR®-ISOLIERGRUND FARBLOS

(se continua en página 7)

· ***Categoria de transporte***	*3*
· ***Código de restricción del túnel***	*D/E*
· ***IMDG***	
· ***Limited quantities (LQ)***	*5L*
· ***Excepted quantities (EQ)***	*Code: E1* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 1000 ml*
· ***"Reglamentación Modelo" de la UNECE:***	*UN 1263 PINTURA, 3, III*

15 Información reglamentaria

· ***Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla***

· ***Directiva 2012/18/UE***
· ***Sustancias peligrosas nominadas - ANEXO I*** *ninguno de los componentes está incluido en una lista*
· ***Categoría Seveso*** *P5c LÍQUIDOS INFLAMABLES*
· ***Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior*** *5,000 t*
· ***Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior*** *50,000 t*
· ***Evaluación de la seguridad química:*** *Una evaluación de la seguridad química no se ha llevado a cabo.*

*
16 Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contratual.

· ***Persona de contacto:*** *Abteilung Entwicklung*
· ***Interlocutor:*** *Jeweiliger Produktverantwortlicher*
· ***Abreviaturas y acrónimos:***
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
· **** Datos modificados en relación a la versión anterior***

1 Identification

· **Product identifier**

· **Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ**

· **Article number:** 80024-0-0997
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 3	H226 Flammable liquid and vapor.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
2,4,7,9-tetramethyldec-5-yne-4,7-diol
· **Hazard statements**
Flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

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US

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
1333-86-4	Carbon black	10-25%
67-63-0	propan-2-ol	5-10%
124-68-5	2-amino-2-methylpropanol	2.5-5%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	<0.5%

· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· **Description of first aid measures**
· **General information:** *Immediately remove any clothing soiled by the product.*
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** *If symptoms persist consult doctor.*
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

(Contd. on page 3)

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

(Contd. of page 2)

· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1333-86-4	Carbon black	9 mg/m³
67-63-0	propan-2-ol	400 ppm
124-68-5	2-amino-2-methylpropanol	17 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	30 mg/m³

· **PAC-2:**		
1333-86-4	Carbon black	99 mg/m³
67-63-0	propan-2-ol	2000* ppm
124-68-5	2-amino-2-methylpropanol	190 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	330 mg/m³

· **PAC-3:**		
1333-86-4	Carbon black	590 mg/m³
67-63-0	propan-2-ol	12000** ppm
124-68-5	2-amino-2-methylpropanol	570 mg/m³
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,000 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

(Contd. of page 3)

Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

67-63-0 propan-2-ol

Oral	LD50	4,570 mg/kg (rat)
Dermal	LD50	13,400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

· **Ingredients with biological limit values:**

67-63-0 propan-2-ol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Suitable respiratory protective device recommended.

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** *Neoprene gloves*

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:**



Tightly sealed goggles

*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Fluid*
Color:	*Black*
· **Odor:**	*Specific type*
· **Odor threshold:**	*Not determined.*
· **pH-value at 20 °C (68 °F):**	*7-8*
· **Change in condition**	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*82 °C (179.6 °F)*
· **Flash point:**	*33.5 °C (92.3 °F)*
· **Flammability (solid, gaseous):**	*Flammable.*
· **Ignition temperature:**	*425 °C (797 °F)*
· **Decomposition temperature:**	*Not determined.*
· **Auto igniting:**	*Product is not selfigniting.*
· **Danger of explosion:**	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **Explosion limits:**	
Lower:	2 Vol %
Upper:	12 Vol %
· **Vapor pressure at 20 °C (68 °F):**	43 hPa (32.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.025 g/cm³ (8.554 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	14 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	10.0 %
Water:	60.2 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
67-63-0	propan-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **OSHA-Ca (Occupational Safety & Health Administration)**

50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1263
· **UN proper shipping name**	
· **DOT**	Paint related material
· **ADR**	1263 PAINT RELATED MATERIAL
· **IMDG, IATA**	PAINT RELATED MATERIAL
· **Transport hazard class(es)**	
· **DOT**	



· **Class**	3 Flammable liquids
· **Label**	3

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **ADR**



· **Class**	3 (F1) Flammable liquids
· **Label**	3

· **IMDG, IATA**



· **Class**	3 Flammable liquids
· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0	propan-2-ol

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
1333-86-4	Carbon black	ACTIVE
67-63-0	propan-2-ol	ACTIVE
124-68-5	2-amino-2-methylpropanol	ACTIVE
24937-78-8	Ethyl vinyl acetate copolymer	ACTIVE
68131-40-8	sekundärer Alkohol (C11-15), ethoxyliert	ACTIVE
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
67-63-0	propan-2-ol	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/16/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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Trade name: PIGMENTPRÄPARATION FÜR WÄSSRIGE SYSTEME, SCHWARZ

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ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1

· **** Data compared to the previous version altered.***

Printing date 02/18/2023 *Reviewed on 02/18/2023*

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT SCHWARZ**

· **Article number:** 80068-0-0970
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

(Contd. on page 2)

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Trade name: FARBKONZENTRAT SCHWARZ

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· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

1333-86-4	Carbon black	2.5-5%
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1333-86-4	Carbon black	9 mg/m³

· **PAC-2:**		
1333-86-4	Carbon black	99 mg/m³

· **PAC-3:**		
1333-86-4	Carbon black	590 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Black
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.

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Trade name: FARBKONZENTRAT SCHWARZ

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with Water:**	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	0.9 %
Water:	95.6 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

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· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **DOT, ADR, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
1333-86-4	Carbon black	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/18/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1

· **** Data compared to the previous version altered.***

1 Identification

· **Product identifier**

· **Trade name: FARBKONZENTRAT ROTBRAUN**

· **Article number:** 80068-0-0392
· **Application of the substance / the mixture** Stainer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

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Trade name: FARBKONZENTRAT ROTBRAUN

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· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min
· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)
· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

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· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves
· ***Eye protection:*** *Goggles recommended during refilling.*

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Red*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*7-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*100 °C (212 °F)*
· ***Flash point:***	*>100 °C (>212 °F)*
· ***Flammability (solid, gaseous):***	*Not applicable.*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Vapor pressure at 20 °C (68 °F):***	*23 hPa (17.3 mm Hg)*
· ***Density at 20 °C (68 °F):***	*1 g/cm³ (8.345 lbs/gal)*
· ***Relative density***	*Not determined.*
· ***Vapor density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with***	
Water:	*Fully miscible.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic at 20 °C (68 °F):	*12 s (DIN 53211/4)*
· ***Solvent content:***	
Organic solvents:	*1.0 %*
Water:	*95.4 %*
· ***Other information***	*No further relevant information available.*

10 Stability and reactivity

· ***Reactivity*** *No further relevant information available.*
· ***Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** *No decomposition if used according to specifications.*

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Trade name: FARBKONZENTRAT ROTBRAUN

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· ***Possibility of hazardous reactions*** *No dangerous reactions known.*
· ***Conditions to avoid*** *No further relevant information available.*
· ***Incompatible materials:*** *No further relevant information available.*
· ***Hazardous decomposition products:*** *No dangerous decomposition products known.*

11 Toxicological information

· ***Information on toxicological effects***
· ***Acute toxicity:***
· ***Primary irritant effect:***
· ***on the skin:*** *No irritant effect.*
· ***on the eye:*** *No irritating effect.*
· ***Sensitization:*** *Sensitization possible through skin contact.*
· ***Additional toxicological information:***
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· ***Carcinogenic categories***

· ***IARC (International Agency for Research on Cancer)***		
90-43-7	*biphenyl-2-ol*	*3*
50-00-0	*formaldehyde*	*1*

· ***NTP (National Toxicology Program)***		
50-00-0	*formaldehyde*	*K*

· ***OSHA-Ca (Occupational Safety & Health Administration)***	
50-00-0	*formaldehyde*

12 Ecological information

· ***Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***Persistence and degradability*** *No further relevant information available.*
· ***Behavior in environmental systems:***
· ***Bioaccumulative potential*** *No further relevant information available.*
· ***Mobility in soil*** *No further relevant information available.*
· ***Additional ecological information:***
· ***General notes:***
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***Other adverse effects*** *No further relevant information available.*

13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· ***Uncleaned packagings:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*

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Trade name: FARBKONZENTRAT ROTBRAUN

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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
5521-31-3	Pigment Red CI 179	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

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Trade name: FARBKONZENTRAT ROTBRAUN

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· **Cancerogenity categories**

· EPA (Environmental Protection Agency)		
50-00-0	formaldehyde	B1

· TLV (Threshold Limit Value)		
50-00-0	formaldehyde	A2

· MAK (German Maximum Workplace Concentration)		
50-00-0	formaldehyde	4

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/19/2023
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· *** Data compared to the previous version altered.**

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/02/2023 *Reviewed on 01/22/2023*

1 Identification

· **Product identifier**

· **Trade name: PROVOTEC®**

· **Article number:** 89090-0-0000
· **Application of the substance / the mixture** Lacquer

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Flammable Liquids 3 H226 Flammable liquid and vapor.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS02

· **Signal word** Warning
· **Hazard statements**
Flammable liquid and vapor.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

(Contd. on page 2)

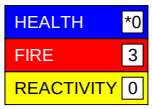
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Trade name: PROVOTEC®

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· **WHMIS-ratings (scale 0 - 4)**



*Health = *0*
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	25-50%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	2.5-5%
220410-74-2	1,4-dihydroxy-2,2,6,6-tetramethylpiperidinium-2-hydroxy-1,2,3-propanetricarboxylate	0.5-2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
64-17-5	ethanol	1,800 ppm

· **PAC-2:**		
64-17-5	ethanol	3300* ppm

· **PAC-3:**		
64-17-5	ethanol	15000* ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
No special precautions are necessary if used correctly.
Use only in well ventilated areas.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** *No special requirements.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:** *Keep receptacle tightly sealed.*
· **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** *No further data; see item 7.*

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** *Suitable respiratory protective device recommended.*

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· ***Protection of hands:***



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· ***Penetration time of glove material***
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Fluorocarbon rubber (Viton)

· ***As protection from splashes gloves made of the following materials are suitable:*** *Neoprene gloves*

· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong gloves

· ***Eye protection:***



Tightly sealed goggles

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Color:	*Colorless*
· ***Odor:***	*Specific type*
· ***Odor threshold:***	*Not determined.*
· ***pH-value at 20 °C (68 °F):***	*6-8*
· ***Change in condition***	
Melting point/Melting range:	*0 °C (32 °F)*
Boiling point/Boiling range:	*78 °C (172.4 °F)*
· ***Flash point:***	*30 °C (86 °F)*
· ***Flammability (solid, gaseous):***	*Flammable.*
· ***Ignition temperature:***	*425 °C (797 °F)*
· ***Decomposition temperature:***	*Not determined.*
· ***Auto igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*
· ***Explosion limits:***	
Lower:	*3.5 Vol %*

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Upper:	15 Vol %
· **Vapor pressure at 20 °C (68 °F):**	59 hPa (44.3 mm Hg)
· **Density at 20 °C (68 °F):**	1 g/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	30.4 %
Water:	67.3 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
64-17-5	ethanol	1
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **DOT** Paint
· **ADR** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids

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· **Label**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· **ADR**	
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol

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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
78-93-3	butanone	I
50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**		
64-17-5	ethanol	A3
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**		
64-17-5	ethanol	5
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 02/02/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
· *** Data compared to the previous version altered.**

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1 Identification

· **Product identifier**

· **Trade name: HYDROPLUS® BEIZE**
RIVAN BROWN ASH

· **Article number:** HB164BP0V023666
· **Application of the substance / the mixture** Paint

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
VOTTELER
Lackfabrik GmbH & Co. KG
Schwieberdinger Str. 97/102
70825 Korntal-Münchingen
Tel: 0711/9804-5
Fax: 0711/9804-722

· **Information department:**
Labor Sekretariat:
+49 (0)711 9804 - 721 (nur während den üblichen Bürozeiten)
msds@votteler.com
· **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 90374 : (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**
Acid Black 172
Acid Yellow C.I. 220
· **Hazard statements**
May cause an allergic skin reaction.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

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Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

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· ***WHMIS-ratings (scale 0 - 4)***



Health = 0
Fire = 1
Reactivity = 0

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

107-98-2	1-methoxy-2-propanol	0.5-2.5%
57693-14-8	Acid Black 172	<0.5%
71603-79-7	Acid Yellow C.I. 220	<0.5%

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

4 First-aid measures

· ***Description of first aid measures***
· ***After inhalation:***
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water.*
· ***After swallowing:*** *If symptoms persist consult doctor.*
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Use fire fighting measures that suit the environment.*
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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RIVAN BROWN ASH

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Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
107-98-2	1-methoxy-2-propanol	100 ppm

· **PAC-2:**		
107-98-2	1-methoxy-2-propanol	160 ppm

· **PAC-3:**		
107-98-2	1-methoxy-2-propanol	660 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

107-98-2 1-methoxy-2-propanol	
REL	Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm A4

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Breathing equipment:** Suitable respiratory protective device recommended.

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Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

(Contd. of page 3)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
Gloves for short exposure/ splash protection - non-exhaustive list
butyl rubber, thickness > 0.35 mm, breakthrough time: > 30 min

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton)

· **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves

· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves

· **Eye protection:** Goggles recommended during refilling.

*
9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Brown
· **Odor:**	Specific type
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	7-8
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.005 g/cm³ (8.387 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.

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Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· **Solvent content:**	
Organic solvents:	1.9 %
Water:	96.5 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1333-86-4	Carbon black	2B
90-43-7	biphenyl-2-ol	3
50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**		
50-00-0	formaldehyde	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
50-00-0	formaldehyde

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

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Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

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· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number** · **DOT, ADR, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT, ADR, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **DOT, ADR, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/24/2023 Reviewed on 04/24/2023

Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

(Contd. of page 6)

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similarpurity	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
57693-14-8	Acid Black 172	ACTIVE
34590-94-8	Dipropylene glycol monomethyl ether	ACTIVE
72017-66-4	Chromium Complex-Dye, C.I. Acid Red 407	ACTIVE
1333-86-4	Carbon black	ACTIVE
5521-31-3	Pigment Red CI 179	ACTIVE
57-55-6	Propylene glycol	ACTIVE

· **Hazardous Air Pollutants**

50-00-0	formaldehyde

· **Proposition 65**

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value)**

1333-86-4	Carbon black	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

1333-86-4	Carbon black	3B
50-00-0	formaldehyde	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
50-00-0	formaldehyde

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Abteilung Entwicklung
· **Contact:** Jeweiliger Produktverantwortlicher
· **Date of preparation / last revision** 04/24/2023
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/24/2023 *Reviewed on 04/24/2023*

Trade name: HYDROPLUS® BEIZE
RIVAN BROWN ASH

(Contd. of page 7)

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation – Category 1
· **** Data compared to the previous version altered.***

Shipper

DOERRENHAUS GMBH INT. SPEDITION
SIEMENSSTR. 21
42551 VELBERT
GERMANY

B/L No.
ALM251197

SACO SHIPPING LINE LTD

Consigned to order of

GLOBALTRANZ MX S DE RL DE CV
RICARDO MARGAINZOZAYA NO. 444
PISO 15 COL. VALLE DEL CAMPESTRE
SAN PEDRO GARZA GARCIA,
NUEVO LEON, MEXICO CP: 66265
RFC: GMX171108GR5
EMAIL: INTLOPSMX@GLOBALTRANZ.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address

SAME AS CONSIGNEE

3/12/BRE/525104

Copy

Place of receipt
KORNTAL

Ocean vessel
TOKYO EXPRESS 006W

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	ALTAMIRA	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
A000409681	2 PALLETS	PAINT		1123,400	3,082
NBHX TRIM MEXICO		UN 1263/CLASS 3/PG II			
S DE RL DE CV		UN 1263/CLASS 3/PG III			
AGUASCALIENTES					
PLANT					
STOWED INTO CONTAINER NO.: TCLU1531421				SEAL : WWA010171086	
TOTAL	**2 PALLETS**			**1123,400 KGS**	**3,082 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper

PFLEIDERER ARNSBERG GMBH
WESTRING 19-21
DE-59759 ARNSBERG

B/L No.
ALM251202

SACO SHIPPING LINE LTD

Consigned to order of

NOMA DESIGN S.A. DE C.V.
AV. FRANCISCO I. MADERO 4064-5
64590 MONTERREY, NUEVO LEON
MEXIKO
RFC: NDE131219MF3

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE

ATTN.:EMILIA PORRAS MONTOY
ASISTENTEAD@NOMADESIGN.MX
TEL.:01 800 821 85 90

3/12/BRE/525105

Copy

Place of receipt
BREMEN CFS

Ocean vessel
TOKYO EXPRESS

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
NOMA PO VW PROJECT PORT ALTAMIRA STOWED INTO CONTAINER NO.: TCLU1531421	1 CASE	LAMINATES HS CODE: 392190	SEAL : WWA010171086	1116,000	2,127
TOTAL	**1 CASE**			**1116,000 KGS**	**2,127 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

INTRAC H.FEHRMANN GMBH
HOLSTEINER STRASSE 88
28219 BREMEN
TAX D:180933302

B/L No.
ALM251205

SACO SHIPPING LINE LTD

Consigned to order of

MIMPO GLOBAL LOGISTICS MEXICO SA DE CV
AV. JOSE VASCONCELOS # 105. PISO 9
OFICINA 903
COLONIA HIPODROMO, CUAUHTEMOC
CIUDAD DE MEXICO. C.P. 06100
TAX ID: MGL191123RRA

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE
ALEJANDRA VAZQUEZ ORTEGA
PHONE:+55 11 13 79 84
MAIL: ALEJANDRA.VAZQUEZ@MIMPO.COM

3/12/BRE/525107

Copy

	Place of receipt
	BREMEN CFS
Ocean vessel	**Port of loading**
TOKYO EXPRESS	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
POWERTECNO ENERGIA MEXICANA, S. DE R.L. DE C.V.	2 PACKAGES	SISTEMA DE AEROCONDENSADOR Y ENFRIAMIENTO, COMPLETO DESENSAMBLADO CON TODAS SUS PARTES Y ACCESORIOS PARA SU CORRECTO FUNCIONAMIENTO PO 70240068020 SHIPPING N.O: 70240-OFS-0153-GERMANY HS-CODE: 73045982		601,220	0,522

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**2 PACKAGES**	**601,220 KGS**	**0,522 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

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Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

ALM251213_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift)
Shipper (Name & Address)
Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1-3
36304 Alsfeld / Germany

Buchungsnummer(n)
Reference number(s)
Page 1 of 1

Empfänger
Consignee
Preh de Mexico S.A. de C.V.
Tax ID: PME-051004-TYA
Parque Industrial
Kalos Guadalupe, Crio 814
67205 Guadalupe, NL, MEXICO

Beförderer
Carrier
C.H. Robinson GmbH
Langer Kornweg 19 - 23
65431 Kelsterbach

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

DECLARATION
It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1.

AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

Container-/Fahrzeug-Nr.:
Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading
Hamburg

Löschhafen
Port of discharge
Altamira

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)
Bef.n.Abs.1.1.4.2.1/VibrantzDiegel-29003-NCEC
Emergency Contact 24h Tel.no.: +12024642554

UN-Nr. UN-No.	Inhalt (richtiger technischer Name)* Proper Shipping Name (Correct technical name)*	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN 1263	PAINT	3	II	EDA 3210	1 unit load with 4 x 1A2 steel drum(s)
UN 1263	PAINT RELATED MATERIAL	3	II	EDA 3308	1 unit load with 3 x 1A2 steel drum(s)
UN 1866	RESIN SOLUTION	3	III		2 x 3A1 steel jerrican(s)

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse - Net quantity/volume/mass Netto Explosivstoffmasse*** Net explosive mass***	Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften/Properties Flammpunkt/Flashpoint** MARINE POLLUTANT** Kontroll- und Notfalltemperatur** Control- and emergency temperature**
EDA 3210 126,0 kg 100,0 kg	F-E, S-E	-18 °C c.c.
EDA 3308 90,0 kg 67,5 kg	F-E, S-E	-16 °C c.c.
EDA 3308 14,0 kg 10,0 kg	F-E, S-E	25 °C c.c.

Güter angeliefert als/Goods delivered as:
- ☐ Stückgut/Breakbulk cargo
- ☒ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE – LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Kerstin Lahl/Customer Service/Logistics

Ort und Datum
Place and date
Alsfeld, 08.11.2023

Unterschrift für den Versender
Signature on behalf of shipper
Vibrantz Diegel GmbH
Ernst-Diegel-Straße 1-3
36304 Alsfeld

Druck und Vertrieb:
Dössel & Rademacher, Brandstwiete 42, 20457 Hamburg, Telefon 040-32 32 30-0, Telefax 040-32 32 30-30 **Bestell-Nr. DR299** 05.17
Eigener Entwurf, Nachdruck verboten

ALM251213_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

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Versender (Name & Anschrift)
Shipper (Name & Address)
Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1-3
36304 Alsfeld / Germany

Buchungsnummer(n)
Reference number(s)
Page 1 of 1

Empfänger
Consignee
Preh de Mexico S.A. de C.V.
Tax ID: PME-051004-TYA
Parque Industrial
Kalos Guadalupe, Crio 814
67205 Guadalupe, NL, MEXICO

Beförderer
Carrier
C.H. Robinson GmbH
Langer Kornweg 19 - 23
65431 Kelsterbach

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

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AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

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Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading
Hamburg

Löschhafen
Port of discharge
Altamira

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)
Bef.n.Abs.1.1.4.2.1/VibrantzDiegel-29003-NCEC
Emergency Contact 24h Tel.no.: +12024642554

UN-Nr. UN-No.	Inhalt (richtiger technischer Name)* Proper Shipping Name (Correct technical name)*	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
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- ☒ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

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** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE – LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Kerstin Lahl/Customer Service/Logistics

Ort und Datum
Place and date
Alsfeld, 08.11.2023

Unterschrift für den Versender
Signature on behalf of shipper
Vibrantz Diegel GmbH
Ernst-Diegel-Straße 1-3
36304 Alsfeld

Druck und Vertrieb:
Dössel & Rademacher, Brandstwiete 42, 20457 Hamburg, Telefon 040-32 32 30-0, Telefax 040-32 32 30-30 **Bestell-Nr. DR299** 05.17
Eigener Entwurf, Nachdruck verboten

ALM251213_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift)
Shipper (Name & Address)
Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1-3
36304 Alsfeld / Germany

Buchungsnummer(n)
Reference number(s)
Page 1 of 1

Empfänger
Consignee
Preh de Mexico S.A. de C.V.
Tax ID: PME-051004-TYA
Parque Industrial
Kalos Guadalupe, Crio 814
67205 Guadalupe, NL, MEXICO

Beförderer
Carrier
C.H. Robinson GmbH
Langer Kornweg 19 - 23
65431 Kelsterbach

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

DECLARATION
It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1.

AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

Container-/Fahrzeug-Nr.:
Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading
Hamburg

Löschhafen
Port of discharge
Altamira

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)
Bef.n.Abs.1.1.4.2.1/VibrantzDiegel-29003-NCEC
Emergency Contact 24h Tel.no.: +12024642554

UN-Nr. UN-No.	Inhalt (richtiger technischer Name)* Proper Shipping Name (Correct technical name)*	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN 1263	PAINT	3	II	EDA 3210	1 unit load with 4 x 1A2 steel drum(s)
UN 1263	PAINT RELATED MATERIAL	3	II	EDA 3308	1 unit load with 3 x 1A2 steel drum(s)
UN 1866	RESIN SOLUTION	3	III		2 x 3A1 steel jerrican(s)

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse - Net quantity/volume/mass Netto Explosivstoffmasse*** Net explosive mass***	Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften/Properties Flammpunkt/Flashpoint** MARINE POLLUTANT** Kontroll- und Notfalltemperatur** Control- and emergency temperature**
EDA 3210 126,0 kg 100,0 kg	F-E, S-E	-18 °C c.c.
EDA 3308 90,0 kg 67,5 kg	F-E, S-E	-16 °C c.c.
EDA 3308 14,0 kg 10,0 kg	F-E, S-E	25 °C c.c.

Güter angeliefert als/Goods delivered as:
- ☐ Stückgut/Breakbulk cargo
- ☒ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
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Eigener Entwurf, Nachdruck verboten

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. **Identificador del producto**

No. del artículo (productor/proveedor): 45766 CF
Nombre comercial/denominación: Laser basic paint
black
UFI: HNP1-E0WX-E009-AUTP

1.2. **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

Usos relevantes identificados
Recubrimiento de plástico

1.3. **Datos del proveedor de la ficha de datos de seguridad**

suministrador (fabricante/importador/usuario posterior/comerciante)

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Alemania
Teléfono: +49 6631 785-0
Telefax: +49 6631 785-770

Departamento responsable de la información:
Laboratorio
Correo electrónico: produktsicherheit-diegel@vibrantz.com

1.4. **Teléfono de emergencia**

Teléfono de emergencia: +49 6631 785-0
(Lunes - Jueves 7:15 - 16:15 h)
(Viernes 7:15 - 12:00 h)

SECCIÓN 2: Identificación de los peligros

2.1. **Clasificación de la sustancia o de la mezcla**

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

La mezcla está clasificada como peligrosa según el reglamento (CE) Nº 1272/2008 [CLP].

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.

2.2. **Elementos de la etiqueta**

El producto está clasificado y caracterizado según las lineas de orientazión de la UE o las leyes nacionales correspondientes.

Etiquetado según el Reglamento (CE) nº 1272/2008 [CLP]

Pictograma de peligro



Peligro

Indicaciones de peligro

H225	Líquido y vapores muy inflamables.
H318	Provoca lesiones oculares graves.
H336	Puede provocar somnolencia o vértigo.

Consejos de prudencia

P210	Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.
P280	Llevar guantes y gafas/máscara de protección.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P310	Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
P370 + P378	En caso de incendio: Utilizar polvo extintor o arena para la extinción.
P403 + P233	Almacenar en un lugar bien ventilado. Mantener el recipiente cerrado herméticamente.
P403 + P235	Almacenar en un lugar bien ventilado. Mantener en lugar fresco.

Componentes Peligrosos para etiquetado
(S)-2-hidroxipropionato de etilo
Acetona

Características de peligro suplementarias
EUH066 La exposición repetida puede provocar sequedad o formación de grietas en la piel.

2.3. **Otros peligros**

Noy hay información disponible.

SECCIÓN 3: Composición / información sobre los componentes

3.2. **Mezclas**

Descripción Mezcla de ligantes, disolventes, pigmentos y aditivos

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

N.º CE n.º CAS Número de identificación - UE	Número-REACH Nombre químico clasificación: // Observación	peso %
200-662-2 67-64-1 606-001-00-8	01-2119471330-49 Acetona Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	50 - 100
211-694-1 687-47-8 607-129-00-7	01-2119516234-49 (S)-2-hidroxipropionato de etilo Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	5 - 10
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-metoxi-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	5 - 10
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 Acetato de n-butilo Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	2,5 - 5
201-159-0 78-93-3 606-002-00-3	01-2119457290-43 butanona Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	2,5 - 5

Advertencias complementarias
Texto completo de la clasificación, ver bajo sección 16

SECCIÓN 4: Primeros auxilios

4.1. **Descripción de los primeros auxilios**

Informaciones generales

Al aparecer síntomas o en caso de duda preguntar a un médico. En caso de pérdida de conocimiento no administrar nada por la boca, acostar al afectado en posición lateral estable y preguntar a un médico.

En caso de inhalación
Llevar al accidentado al aire libre y mantenerlo caliente y tranquilo. En el caso de respiración irregular o parálisis de la misma, utilizar la respiración artificial.

Después de contacto con la piel
En caso de contacto con la piel, lávese inmediata- y abundantemente con agua y jabón. Quítese inmediatamente la ropa manchada o salpicada. No emplear ni disolventes ni diluyentes.

En caso de contacto con los ojos
Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llamar inmediatamente ayuda médica.

En caso de ingestión
En caso de ingestión, enjuáguese la boca con agua (solamente si la persona está consciente). Llamar inmediatamente ayuda médica. Mantener a la víctima en posición de reposo. NO provocar el vómito.

4.2. **Principales síntomas y efectos, agudos y retardados**
Al aparecer síntomas o en caso de duda preguntar a un médico.

4.3. **Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**
Ayuda elemental, decontaminación, tratamiento sintomático.

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

SECCIÓN 5: Medidas de lucha contra incendios

5.1. **Medios de extinción**

Medios de extinción apropiados
espuma resistente al alcohol, dióxido de carbono, Polvo, niebla de pulverización, (agua)

Medios de extinción no apropiados
Chorro de agua

5.2. **Peligros específicos derivados de la sustancia o la mezcla**
En caso de incendio se forma denso humo negro. La respiración de productos de descomposición peligrosos puede causar daños de salud graves.

5.3. **Recomendaciones para el personal de lucha contra incendios**
Tener preparado el aparato respiratorio de protección.

Advertencias complementarias
Refrescar con agua los recipientes cerrados que se encuentran en las cercanías del foco de incendio. No dejar llegar el agua de extinción a canalización o al medio acuáticos.

SECCIÓN 6: Medidas en caso de vertido accidental

6.1. **Precauciones personales, equipo de protección y procedimientos de emergencia**
Conservar alejado de toda llama o fuente de chispas.Ventilar la zona afectada. No inhalar los vapores.

6.2. **Precauciones relativas al medio ambiente**
No dejar verter ni en la canalización ni en desagües. Si el producto contamina lagos, ríos o alcantarillas, informar a las autoridades apropiadas de acuerdo a las regulaciones locales.

6.3. **Métodos y material de contención y de limpieza**
Limitar y contener el material desbordado con material absorbente incombustible (p.e. arena, tierra, vermiculita, tierra infusoria) según las ordenanzas locales, juntar en recipientes previstos (ver capítulo 13). Efectuar una limpieza posterior con detergentes. No emplear disolventes.

6.4. **Referencia a otras secciones**
Respetar las disposiciones de seguridad (ver sección 7 y 8).

SECCIÓN 7: Manipulación y almacenamiento

7.1. **Precauciones para una manipulación segura**

Informaciones para manipulación segura

Hay que evitar una concentración de vapor inflamable y explosivo en el aire así como sobrepasar el valor límite del lugar de trabajo. Utilizar el material solo donde se puedan mantener alejados de lúz encendida, fuego y otras fuentes inflamables. Aparatos eléctricos se tienen que proteger según el estandard aprobado. Mantener alejado de fuentes de calor, chispas y llamas. El producto puede cargarse electrostáticamente. Al cambiar de envase utilizar exclusivamente tuberías puestas a tierra . Es aconsejable utilizar ropa y calzado antiestáticos. Utilizar herramientas que no provoquen chispas. Evitar el contacto con la piel, los ojos y la ropa. No inhalar ni vapores ni aerosoles. No comer, beber ni fumar durante su utilización. Protección individual: véase sección 8. Seguir las disposiciones legales de protección y seguridad.

Informaciones adicionales
Los vapores son más pesados que el aire. Vapores pueden formar con aire una mezcla explosiva.

7.2. **Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Requisitos para los lugares de almacenamiento y recipientes
Almacenaje conforme con el reglamento de seguridad de servicio. Consérvese únicamente en el recipiente de origen. Obsérvese las indicaciones en la etiqueta.Manténgase el recipiente bien cerrado. No vaciar los recipientes con presión - no es un recipiente de presión! Prohibido fumar. Prohibido el paso a personas no autorizadas. Mantener los recipientes cerrados en posición vertical, para evitar todo escape del producto. Conservar en locales bien secos y ventilados a una temperatura de 15 °C a 30 °C. Proteger del calor y de las radiaciones solares directas.

Indicaciones sobre el almacenamiento conjunto
Almacenar lejos de substancias ácidas o alcalinas, así como de substancias oxidantes.

Más datos sobre condiciones de almacenamiento
Manténgase lejos de alimentos, bebidas y piensos.

7.3. **Usos específicos finales**
Respetar la hojas técnicas.Tener en cuenta las instrucciones para el uso.

Ficha de datos de seguridad
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conforme al Reglamento (UE) 2020/878

SECCIÓN 8: Controles de exposición/protección individual

8.1. **Parámetros de control**

Valores límites de puesto de trabajo

Acetona
Número de identificación - UE 606-001-00-8 / N.º CE 200-662-2 / n.º CAS 67-64-1

TWA: 500 ppm
STEL: 750 ppm

1-metoxi-2-propanol
Número de identificación - UE 603-064-00-3 / N.º CE 203-539-1 / n.º CAS 107-98-2

TWA: 100 ppm
STEL: 150 ppm

Acetato de n-butilo
Número de identificación - UE 607-025-00-1 / N.º CE 204-658-1 / n.º CAS 123-86-4

TWA: 710 mg/m3; 150 ppm
STEL: 950 mg/m3; 200 ppm
Observación: A4

butanona
Número de identificación - UE 606-002-00-3 / N.º CE 201-159-0 / n.º CAS 78-93-3

TWA: 590 mg/m3; 200 ppm
STEL: 885 mg/m3; 300 ppm

Advertencias complementarias
TWA : valor límite del lugar de trabajo de tiempo prolongado
STEL : valor límite del lugar de trabajo de poco tiempo
Ceiling : limitación de los picos de exposición

8.2. **Controles de la exposición**

Asegurar una buena ventilación. Esto se puede conseguir con aspiración local o de la habitación. Si no es suficiente para mantener la concentración de vapores de aerosol y disolventes debajo del valor límite del lugar de trabajo, hay que usar un aparato respiratorio adecuado.

Protección individual

Protección respiratoria
Si la concentración de disolventes sobrepasa el valor límite del lugar de trabajo, hay que utilizar una mascara respiratoria adecuada y autorizada para este objeto. Sólo utilizar aparatos respiratorios con la marca CE incluyendo los cuatro números de prueba.

Protección de la mano
Guantes de protección adecuados resistentes a productos químicos (EN 374) y también para un contacto directo y a largo plazo (recomendación: índice de protección 6; correspondiente a > 480 minutos de tiempo de permeabilidad según EN 374): por ej. de caucho de nitrilo (0.4 mm), caucho de cloropreno (0,5 mm), caucho de butilo (0.7 mm) Indicaciones adicionales: Los datos son los resultados de bibliografía e informaciones sobre los fabricantes de guantes, o bien, de datos análogos de sustancias similares. Hay que considerar, que en la práctica el tiempo de uso diario de unos guantes de protección resistentes a los productos químicos es claramente inferior, debido a muchos factores influyentes (por ej. la temperatura), que el tiempo determinado por los ensayos de permeabilidad.

Protección de ojos y cara
Usar gafas protectoras cerradas si existe peligro de salpicar.

Protección corporal
Utilizar ropa antiestática de fibras naturales (algodón) o de fibras sintéticas resistentes al calor.

Medidas de protección
Después del contacto con la piel lavarse bien con agua y jabón o utilizar un purgante adecuando. No utilizar disolventes orgánicos.

Controles de exposición medioambiental
No dejar verter ni en la canalización ni en desagües. Véase sección 7. No hay que tomar más medidas.

SECCIÓN 9: Propiedades físicas y químicas

9.1. **Información sobre propiedades físicas y químicas básicas**

Estado físico:	**Líquido**
Color:	**véase etiqueta**
Olor:	**segun solventes**
Umbral olfativo:	**no aplicable**
Punto de fusión/punto de congelación:	**no aplicable**
Punto inicial de ebullición e intervalo de ebullición:	**56 °C** Observación: valor teórico Fuente: Acetona
Inflamabilidad:	Líquido y vapores muy inflamables.
Límite superior e inferior de explosividad:	
Límite inferior de explosividad:	**1,94 Vol-%**
Límite superior de explosividad:	**15 Vol-%** Fuente: Acetato de n-butilo
Punto de inflamabilidad:	**-18 °C**
Temperatura de auto-inflamación:	**270 °C** Observación: valor teórico Fuente: 1-metoxi-2-propanol
Temperatura de descomposición:	**no aplicable**
pH a 20 °C:	**no aplicable** Observación: solución en agua
Viscosidad cinemática (40°C):	**< 700 mm²/s**
Viscosidad a 20 °C:	**22-24" DIN 53211 6mm**
Solubilidad(es):	
Solubilidad en agua a 20 °C:	**parcialmente soluble**
Coeficiente de reparto n-octanol/agua:	**véase sección 12**
Presión de vapor a 20 °C:	**247 mbar** Observación: valor teórico Fuente: Acetona
Densidad y/o densidad relativa:	
Densidad a 20 °C:	**0,92 g/cm³**
Densidad de vapor relativa:	**no aplicable**
características de partículas:	**no aplicable**

9.2. **Otra información** *

Contenido sólido:	**27 peso %**
contenido en disolventes:	
Disolventes orgánicos:	**73 peso %**
Agua:	**0 peso %**

SECCIÓN 10: Estabilidad y reactividad

10.1. **Reactividad**
Noy hay información disponible.

10.2. **Estabilidad química**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.3. **Posibilidad de reacciones peligrosas**
Para evitar reacciones exotérmicas, tener lejos de ácidos fuertes, bases fuertes y agentes oxidantes fuertes

10.4. **Condiciones que deben evitarse**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.5. **Materiales incompatibles**

no aplicable

10.6. **Productos de descomposición peligrosos**
A temperaturas elevadas, pueden formarse productos de descomposición peligrosos, tal como: dióxido de carbono, monóxido de carbono, humo, oxidos nítricos.

SECCIÓN 11: Información toxicológica

11.1. **Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008**

Toxicidad aguda

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas; Lesiones oculares graves o irritación ocular

Provoca lesiones oculares graves.

Sensibilización respiratoria o cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Efectos-CMR (cancerígeno, cambio de la masa hereditaria y damnificar la capacidad reproductoria)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición única; Toxicidad específica en determinados órganos (STOT) – exposición repetida

Puede provocar somnolencia o vértigo.

Peligro de aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Experiencias de la práctica/en seres humanos

La inhalación de componentes de disolventes que superen el valor -AGW pueden perjudicar la salud, p.ej. irritaciones de las mucosas, vías respiratorias así como daños hepáticos, renales y del sistema nervioso central. Indicaciones son: dolores de cabeza, vértigo, fatiga, debilidad muscular, obnubilación, en casos graves: inconsciencia. Disolventes pueden causar por absorción por la piel algunos de los efectos anteriormente mencionados. Un contacto largo y repetido con el producto provoca la pérdida de grasa de la piel y puede causar daños de contacto de la piel no alérgicos (dermitis de contacto) y/o la resorpción de la sustancia nociva. Salpicaduras pueden provocar en los ojos irritaciones y lesiones reversibles.

Valoración sentificada de las características de CMR

Los ingredientes de esta mezcla no cumplen los criterios para las categorías 1A o 1B de CMR conforme al CLP.

11.2. **Información relativa a otros peligros**

Propiedades de alteración endocrina
Noy hay información disponible.

SECCIÓN 12: Información ecológica

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]
No existen indicaciones sobre la propia preparación.
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo.

12.1. **Toxicidad**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Largo tiempo Ecotoxicidad

No hay datos toxicológicos.

12.2. **Persistencia y degradabilidad**
No hay datos toxicológicos.

12.3. **Potencial de bioacumulación**
No hay datos toxicológicos.

Factor de bioconcentración (FBC)

No hay datos toxicológicos.

12.4. **Movilidad en el suelo**
No hay datos toxicológicos.

12.5. **Resultados de la valoración PBT y mPmB**

Las sustancias en la mezcla no cumplen con los criterios PBT y mPmB según REACH anexo XIII.

12.6. **Propiedades de alteración endocrina**

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Noy hay información disponible.

12.7. **Otros efectos negativos**
Noy hay información disponible.

SECCIÓN 13: Consideraciones relativas a la eliminación

13.1. **Métodos para el tratamiento de residuos**

Eliminación apropiada / Producto
Recomendación
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo. Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles. Eliminación conforme a la Directiva 2008/98/CE sobre residuos y desechos peligrosos.

Lista de proporciones para clave de residuos/calificación de residuos según AVV
La coordinación de los números de clave de los residuos/marcas de residuos según CER hay que efectuarla espedífcamente de ramo y proceso.

Eliminación apropiada / Embalaje
Recomendación
Los embalajes no contaminados pueden ser reciclados. Los envases no vaciados reglamentariamente son residuos especiales.

SECCIÓN 14: Información relativa al transporte

14.1. **Número ONU o número ID**
UN 1263

14.2. **Designación oficial de transporte de las Naciones Unidas**

Transporte por via terrestre (ADR/RID):	FARBE
Transporte marítimo (IMDG):	PAINT
Transporte aéreo (ICAO-TI / IATA-DGR):	Paint

14.3. **Clase(s) de peligro para el transporte**
3

14.4. **Grupo de embalaje**
II

14.5. **Peligros para el medio ambiente**

Transporte por via terrestre (ADR/RID)	no aplicable
Contaminante marino	no aplicable

14.6. **Precauciones particulares para los usuarios**

Transportar siempre en recipientes cerrados, derechos y seguros. Asegurarse, que las personas que transportan el producto saben lo que hay que hacer en caso de accidente o vertimiento.
Informaciones para manipulación segura: véase partes 6 - 8

Informaciones adicionales

Transporte por via terrestre (ADR/RID)

clave de limitación de túnel	D/E

Transporte marítimo (IMDG)

Número EmS	F-E, S-E

14.7. **Transporte marítimo a granel con arreglo a los instrumentos de la OMI**
Ningung transporte de productos a granel según el Código -IBC.

SECCIÓN 15: Información reglamentaria

15.1. **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

Reglamentos UE

Directiva 2010/75/CE sobre emisiones industriales [Industrial Emissions Directive]
valor de COV (en g/L): 666,0

Reglamentos nacionales

Indicaciones para la limitación de ocupación

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Observar las limitaciones para el empleo conforme a la Directiva 92/85/CEE sobre protección de la maternidad o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.
Observar las limitaciones para el empleo conforme a la ley de protección jurídica del trabajo juvenil (94/33/CE) o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.

Sustancia/producto listado en los siguientes inventarios nacionales:
TSCA (USA): listad

15.2. **Evaluación de la seguridad química**
Une evaluación de la seguridad química fue efectuada para las siguientes sustancias en esta mezcla:

N.º CE n.º CAS	Nombre químico	Número-REACH
200-662-2 67-64-1	Acetona	01-2119471330-49
203-539-1 107-98-2	1-metoxi-2-propanol	01-2119457435-35
204-658-1 123-86-4	Acetato de n-butilo	01-2119485493-29
201-159-0 78-93-3	butanona	01-2119457290-43

SECCIÓN 16: Otra información

Texto completo de la clasificación de la sección 3:

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Irrit. 2 / H319	Lesiones oculares graves o irritación ocular	Provoca irritación ocular grave.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.
Flam. Liq. 3 / H226	Sustancias líquidas inflamables	Líquidos y vapores inflamables.
STOT SE 3 / H335	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede irritar las vías respiratorias.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.

Procedimiento de clasificación
Clasificación de mezclas y del método de evaluación aplicado según el Reglamento (CE) Nº 1272/2008 [CLP]

Flam. Liq. 2	Sustancias líquidas inflamables	Conforme a datos obtenidos de los ensayos.
Eye Dam. 1	Lesiones oculares graves o irritación ocular	Método de cálculo.
STOT SE 3	Toxicidad específica en determinados órganos (STOT) – exposición única	Método de cálculo.

Abreviaciones y acrónimos

ADR	Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera
LEP	Valores límites de puesto de trabajo
VLB	Valor límite biológico
CAS	Servicio de resumen químico
CLP	Clasificación, etiquetado y envasado
CMR	Carcinógeno, mutágeno o tóxico para la reproducción
DIN	Instituto Alemán de Normalización
DNEL	Nivel sin efecto derivado
EAKV	Catálogo Europeo de Residuos
EC	Concentración efectivo
CE	Comunidad Europea
EN	European Standard
IATA-DGR	Asociación Internacional de Transporte Aéreo – Reglamentos de mercancías peligrosas
IBC Code	Código internacional para la construcción y el equipo de buques que transporten productos químicos peligrosos a granel
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
Código IMDG	Código Marítimo Internacional de Mercancías Peligrosas
ISO	La Organización Internacional de Normalización
LC	Concentración letal
LD	Dosis letal

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MARPOL	Convenio Internacional para prevenir la contaminación por los buques
OCDE	Organización para la Cooperación y el Desarrollo Económicos
PBT	Persistente, bioacumulable y tóxico
PNEC	Concentración prevista sin efecto
REACH	Registro, evaluación, autorización y restricción de las sustancias y preparados químicos
RID	Reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril
ONU	United Nations
COV	Compuestos orgánicos volátiles
mPmB	muy persistentes y muy bioacumulativas

Informaciones adicionales
Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

Las informaciones de esta hoja de datos de seguridad son a base de nuestro conocimiento actual así como reglamentos nacionales y de la UE.El producto sólo se puede añadir a las aplicaciones mencionadas en el sección 1 sin autorización por escrito.Es siempre la labor del expedidor, de tomar todas las medidas necesarias, para cumplir requisitos de las reglas y leyes locales.Las informaciones en esta hoja de seguridad describe los requisistos de seguridad de nuestro producto y no es una seguridad de las propiedades del producto.

* Datos frente la versión anterior modificados

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SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. **Identificador del producto**

No. del artículo (productor/proveedor):	37745
Nombre comercial/denominación	Thinner UFI: 5300-P0GY-Y00E-GX66

1.2. **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

Usos relevantes identificados
Aditivo para esmaltes con contenido de disolvente

1.3. **Datos del proveedor de la ficha de datos de seguridad**

suministrador (fabricante/importador/usuario posterior/comerciante)

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Alemania

Teléfono: +49 6631 785-0
Telefax: +49 6631 785-770

Departamento responsable de la información:
Laboratorio
Correo electrónico: produktsicherheit-diegel@vibrantz.com

1.4. **Teléfono de emergencia**

Teléfono de emergencia: +49 6631 785-0
(Lunes - Jueves 7:15 - 16:15 h)
(Viernes 7:15 - 12:00 h)

SECCIÓN 2: Identificación de los peligros

2.1. **Clasificación de la sustancia o de la mezcla**

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

La mezcla está clasificada como peligrosa según el reglamento (CE) Nº 1272/2008 [CLP].

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.

2.2. **Elementos de la etiqueta**

El producto está clasificado y caracterizado según las lineas de orientazión de la UE o las leyes nacionales correspondientes.

Etiquetado según el Reglamento (CE) nº 1272/2008 [CLP]

Pictograma de peligro



Peligro

Indicaciones de peligro

H225	Líquido y vapores muy inflamables.
H318	Provoca lesiones oculares graves.
H336	Puede provocar somnolencia o vértigo.

Consejos de prudencia

P210	Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.
P280	Llevar guantes y gafas/máscara de protección.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P310	Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
P370 + P378	En caso de incendio: Utilizar polvo extintor o arena para la extinción.
P403 + P233	Almacenar en un lugar bien ventilado. Mantener el recipiente cerrado herméticamente.
P403 + P235	Almacenar en un lugar bien ventilado. Mantener en lugar fresco.

Componentes Peligrosos para etiquetado

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(S)-2-hidroxipropionato de etilo
Acetona

Características de peligro suplementarias
EUH066 La exposición repetida puede provocar sequedad o formación de grietas en la piel.

2.3. **Otros peligros**

Noy hay información disponible.

SECCIÓN 3: Composición / información sobre los componentes

3.2. **Mezclas**

Descripción Mezcla de disolventes

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

N.º CE n.º CAS Número de identificación - UE	Número-REACH Nombre químico clasificación: // Observación	peso %
200-662-2	01-2119471330-49	
67-64-1	Acetona	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	(S)-2-hidroxipropionato de etilo	12,5 - 20
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	

Advertencias complementarias
Texto completo de la clasificación, ver bajo sección 16

SECCIÓN 4: Primeros auxilios

4.1. **Descripción de los primeros auxilios**

Informaciones generales

Al aparecer síntomas o en caso de duda preguntar a un médico. En caso de pérdida de conocimiento no administrar nada por la boca, acostar al afectado en posición lateral estable y preguntar a un médico.

En caso de inhalación
Llevar al accidentado al aire libre y mantenerlo caliente y tranquilo. En el caso de respiración irregular o parálisis de la misma, utilizar la respiración artificial.

Después de contacto con la piel
En caso de contacto con la piel, lávese inmediata- y abundantemente con agua y jabón. Quítese inmediatamente la ropa manchada o salpicada. No emplear ni disolventes ni diluyentes.

En caso de contacto con los ojos
Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llamar inmediatamente ayuda médica.

En caso de ingestión
En caso de ingestión, enjuáguese la boca con agua (solamente si la persona está consciente). Llamar inmediatamente ayuda médica. Mantener a la víctima en posición de reposo. NO provocar el vómito.

4.2. **Principales síntomas y efectos, agudos y retardados**
Al aparecer síntomas o en caso de duda preguntar a un médico.

4.3. **Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**
Ayuda elemental, decontaminación, tratamiento sintomático.

SECCIÓN 5: Medidas de lucha contra incendios

5.1. **Medios de extinción**

Medios de extinción apropiados
espuma resistente al alcohol, dióxido de carbono, Polvo, niebla de pulverización, (agua)

Medios de extinción no apropiados
Chorro de agua

5.2. **Peligros específicos derivados de la sustancia o la mezcla**
En caso de incendio se forma denso humo negro. La respiración de productos de descomposición peligrosos puede causar daños de salud graves.

5.3. **Recomendaciones para el personal de lucha contra incendios**
Tener preparado el aparato respiratorio de protección.

Advertencias complementarias
Refrescar con agua los recipientes cerrados que se encuentran en las cercanías del foco de incendio. No dejar llegar el agua de extinción a canalización o al medio acuáticos.

SECCIÓN 6: Medidas en caso de vertido accidental

6.1. **Precauciones personales, equipo de protección y procedimientos de emergencia**
Conservar alejado de toda llama o fuente de chispas.Ventilar la zona afectada. No inhalar los vapores.

6.2. **Precauciones relativas al medio ambiente**
No dejar verter ni en la canalización ni en desagües. Si el producto contamina lagos, ríos o alcantarillas, informar a las autoridades apropiadas de acuerdo a las regulaciones locales.

6.3. **Métodos y material de contención y de limpieza**
Limitar y contener el material desbordado con material absorbente incombustible (p.e. arena, tierra, vermiculita, tierra infusoria) según las ordenanzas locales, juntar en recipientes previstos (ver capítulo 13). Efectuar una limpieza posterior con detergentes. No emplear disolventes.

6.4. **Referencia a otras secciones**
Respetar las disposiciones de seguridad (ver sección 7 y 8).

SECCIÓN 7: Manipulación y almacenamiento

7.1. **Precauciones para una manipulación segura**

Informaciones para manipulación segura

Hay que evitar una concentración de vapor inflamable y explosivo en el aire así como sobrepasar el valor límite del lugar de trabajo. Utilizar el material solo donde se puedan mantener alejados de lúz encendida, fuego y otras fuentes inflamables. Aparatos eléctricos se tienen que proteger según el estandard aprobado. Mantener alejado de fuentes de calor, chispas y llamas. El producto puede cargarse electrostáticamente. Al cambiar de envase utilizar exclusivamente tuberías puestas a tierra . Es aconsejable utilizar ropa y calzado antiestáticos. Utilizar herramientas que no provoquen chispas. Evitar el contacto con la piel, los ojos y la ropa. No inhalar ni vapores ni aerosoles. No comer, beber ni fumar durante su utilización. Protección individual: véase sección 8. Seguir las disposiciones legales de protección y seguridad.

Informaciones adicionales
Los vapores son más pesados que el aire. Vapores pueden formar con aire una mezcla explosiva.

7.2. **Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Requisitos para los lugares de almacenamiento y recipientes
Almacenaje conforme con el reglamento de seguridad de servicio. Consérvese únicamente en el recipiente de origen. Obsérvese las indicaciones en la etiqueta.Manténgase el recipiente bien cerrado. No vaciar los recipientes con presión - no es un recipiente de presión! Prohibido fumar. Prohibido el paso a personas no autorizadas. Mantener los recipientes cerrados en posición vertical, para evitar todo escape del producto. Conservar en locales bien secos y ventilados a una temperatura de 15 °C a 30 °C. Proteger del calor y de las radiaciones solares directas.

Indicaciones sobre el almacenamiento conjunto
Almacenar lejos de substancias ácidas o alcalinas, así como de substancias oxidantes.

Más datos sobre condiciones de almacenamiento
Manténgase lejos de alimentos, bebidas y piensos.

7.3. **Usos específicos finales**
Respetar la hojas técnicas.Tener en cuenta las instrucciones para el uso.

SECCIÓN 8: Controles de exposición/protección individual

8.1. **Parámetros de control**
Valores límites de puesto de trabajo

Acetona
Número de identificación - UE 606-001-00-8 / N.º CE 200-662-2 / n.º CAS 67-64-1

TWA: 500 ppm
STEL: 750 ppm

Advertencias complementarias
TWA : valor límite del lugar de trabajo de tiempo prolongado
STEL : valor límite del lugar de trabajo de poco tiempo

Ceiling : limitación de los picos de exposición

8.2. **Controles de la exposición**

Asegurar una buena ventilación. Esto se puede conseguir con aspiración local o de la habitación. Si no es suficiente para mantener la concentración de vapores de aerosol y disolventes debajo del valor límite del lugar de trabajo, hay que usar un aparato respiratorio adecuado.

Protección individual

Protección respiratoria

Si la concentración de disolventes sobrepasa el valor límite del lugar de trabajo, hay que utilizar una mascara respiratoria adecuada y autorizada para este objeto. Sólo utilizar aparatos respiratorios con la marca CE incluyendo los cuatro números de prueba.

Protección de la mano

Guantes de protección adecuados resistentes a productos químicos (EN 374) y también para un contacto directo y a largo plazo (recomendación: índice de protección 6; correspondiente a > 480 minutos de tiempo de permeabilidad según EN 374): por ej. de caucho de nitrilo (0.4 mm), caucho de cloropreno (0,5 mm), caucho de butilo (0.7 mm) Indicaciones adicionales: Los datos son los resultados de bibliografía e informaciones sobre los fabricantes de guantes, o bien, de datos análogos de sustancias similares. Hay que considerar, que en la práctica el tiempo de uso diario de unos guantes de protección resistentes a los productos químicos es claramente inferior, debido a muchos factores influyentes (por ej. la temperatura), que el tiempo determinado por los ensayos de permeabilidad.

Protección de ojos y cara

Usar gafas protectoras cerradas si existe peligro de salpicar.

Protección corporal

Utilizar ropa antiestática de fibras naturales (algodón) o de fibras sintéticas resistentes al calor.

Medidas de protección

Después del contacto con la piel lavarse bien con agua y jabón o utilizar un purgante adecuando. No utilizar disolventes orgánicos.

Controles de exposición medioambiental

No dejar verter ni en la canalización ni en desagües. Véase sección 7. No hay que tomar más medidas.

SECCIÓN 9: Propiedades físicas y químicas

9.1. **Información sobre propiedades físicas y químicas básicas**

Estado físico:	**Líquido**
Color:	**véase etiqueta**
Olor:	**segun solventes**
Umbral olfativo:	**no aplicable**
Punto de fusión/punto de congelación:	**no aplicable**
Punto inicial de ebullición e intervalo de ebullición:	**56 °C** Observación: valor teórico Fuente: Acetona
Inflamabilidad:	Líquido y vapores muy inflamables.
Límite superior e inferior de explosividad:	
Límite inferior de explosividad:	**2,03 Vol-%**
Límite superior de explosividad:	**13 Vol-%** Fuente: Acetona
Punto de inflamabilidad:	**-16 °C**
Temperatura de auto-inflamación:	**465 °C** Observación: valor teórico Fuente: Acetona
Temperatura de descomposición:	**no aplicable**
pH a 20 °C:	**no aplicable** Observación: solución en agua
Viscosidad cinemática (40°C):	**< 20 mm²/s**

Viscosidad a 20 °C:	**11 s 4 mm** Método: DIN 53211
Solubilidad(es):	
Solubilidad en agua a 20 °C:	**mezclable con agua**
Coeficiente de reparto n-octanol/agua:	**véase sección 12**
Presión de vapor a 20 °C:	**247 mbar** Observación: valor teórico Fuente: Acetona
Densidad y/o densidad relativa:	
Densidad a 20 °C:	**0,82 g/cm³**
Densidad de vapor relativa:	**no aplicable**
características de partículas:	**no aplicable**

9.2. **Otra información**

Contenido sólido:	**0 peso %**
contenido en disolventes:	
Disolventes orgánicos:	**100 peso %**
Agua:	**0 peso %**

SECCIÓN 10: Estabilidad y reactividad

10.1. **Reactividad**
Noy hay información disponible.

10.2. **Estabilidad química**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.3. **Posibilidad de reacciones peligrosas**
Para evitar reacciones exotérmicas, tener lejos de ácidos fuertes, bases fuertes y agentes oxidantes fuertes

10.4. **Condiciones que deben evitarse**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.5. **Materiales incompatibles**
no aplicable

10.6. **Productos de descomposición peligrosos**
A temperaturas elevadas, pueden formarse productos de descomposición peligrosos, tal como: dióxido de carbono, monóxido de carbono, humo, oxidos nítricos.

SECCIÓN 11: Información toxicológica

11.1. **Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008**

Toxicidad aguda

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas; Lesiones oculares graves o irritación ocular

Provoca lesiones oculares graves.

Sensibilización respiratoria o cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Efectos-CMR (cancerígeno, cambio de la masa hereditaria y damnificar la capacidad reproductoria)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición única; Toxicidad específica en determinados órganos (STOT) – exposición repetida

Puede provocar somnolencia o vértigo.

Peligro de aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Experiencias de la práctica/en seres humanos

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

La inhalación de componentes de disolventes que superen el valor -AGW pueden perjudicar la salud, p.ej. irritaciones de las mucosas, vías respiratorias así como daños hepáticos, renales y del sistema nervioso central. Indicaciones son: dolores de cabeza, vértigo, fatiga, debilidad muscular, obnubilación, en casos graves: inconsciencia. Disolventes pueden causar por absorción por la piel algunos de los efectos anteriormente mencionados. Un contacto largo y repetido con el producto provoca la pérdida de grasa de la piel y puede causar daños de contacto de la piel no alérgicos (dermitis de contacto) y/o la resorpción de la sustancia nociva. Salpicaduras pueden provocar en los ojos irritaciones y lesiones reversibles.

Valoración sentificada de las características de CMR

Los ingredientes de esta mezcla no cumplen los criterios para las categorías 1A o 1B de CMR conforme al CLP.

11.2. **Información relativa a otros peligros**

Propiedades de alteración endocrina
Noy hay información disponible.

SECCIÓN 12: Información ecológica

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]
No existen indicaciones sobre la propia preparación.
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo.

12.1. **Toxicidad**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Largo tiempo Ecotoxicidad

No hay datos toxicológicos.

12.2. **Persistencia y degradabilidad**
No hay datos toxicológicos.

12.3. **Potencial de bioacumulación**
No hay datos toxicológicos.

Factor de bioconcentración (FBC)

No hay datos toxicológicos.

12.4. **Movilidad en el suelo**
No hay datos toxicológicos.

12.5. **Resultados de la valoración PBT y mPmB**

Las sustancias en la mezcla no cumplen con los criterios PBT y mPmB según REACH anexo XIII.

12.6. **Propiedades de alteración endocrina**
Noy hay información disponible.

12.7. **Otros efectos negativos**
Noy hay información disponible.

SECCIÓN 13: Consideraciones relativas a la eliminación

13.1. **Métodos para el tratamiento de residuos**

Eliminación apropiada / Producto
Recomendación
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo. Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles. Eliminación conforme a la Directiva 2008/98/CE sobre residuos y desechos peligrosos.

Lista de proporciones para clave de residuos/calificación de residuos según AVV
La coordinación de los números de clave de los residuos/marcas de residuos según CER hay que efectuarla espedífcamente de ramo y proceso.

Eliminación apropiada / Embalaje
Recomendación
Los embalajes no contaminados pueden ser reciclados. Los envases no vaciados reglamentariamente son residuos especiales.

SECCIÓN 14: Información relativa al transporte

14.1. **Número ONU o número ID**

UN 1263

14.2. **Designación oficial de transporte de las Naciones Unidas**

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

Transporte por via terrestre (ADR/RID):	FARBZUBEHÖRSTOFFE
Transporte marítimo (IMDG):	PAINT RELATED MATERIAL
Transporte aéreo (ICAO-TI / IATA-DGR):	Paint related material

14.3. **Clase(s) de peligro para el transporte**

3

14.4. **Grupo de embalaje**

II

14.5. **Peligros para el medio ambiente**

Transporte por via terrestre (ADR/RID)	no aplicable
Contaminante marino	no aplicable

14.6. **Precauciones particulares para los usuarios**

Transportar siempre en recipientes cerrados, derechos y seguros. Asegurarse, que las personas que transportan el producto saben lo que hay que hacer en caso de accidente o vertimiento.
Informaciones para manipulación segura: véase partes 6 - 8

Informaciones adicionales

Transporte por via terrestre (ADR/RID)

clave de limitación de túnel	D/E

Transporte marítimo (IMDG)

Número EmS	F-E, S-E

14.7. **Transporte marítimo a granel con arreglo a los instrumentos de la OMI**

Ningung transporte de productos a granel según el Código -IBC.

SECCIÓN 15: Información reglamentaria

15.1. **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

Reglamentos UE

Directiva 2010/75/CE sobre emisiones industriales [Industrial Emissions Directive]
valor de COV (en g/L): 822,0

Reglamentos nacionales

Indicaciones para la limitación de ocupación
Observar las limitaciones para el empleo conforme a la Directiva 92/85/CEE sobre protección de la maternidad o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.
Observar las limitaciones para el empleo conforme a la ley de protección jurídica del trabajo juvenil (94/33/CE) o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.

Sustancia/producto listado en los siguientes inventarios nacionales:
TSCA (USA): listad

15.2. **Evaluación de la seguridad química**
Une evaluación de la seguridad química fue efectuada para las siguientes sustancias en esta mezcla:

N.º CE n.º CAS	Nombre químico	Número-REACH
200-662-2 67-64-1	Acetona	01-2119471330-49

SECCIÓN 16: Otra información

Texto completo de la clasificación de la sección 3:

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Irrit. 2 / H319	Lesiones oculares graves o irritación ocular	Provoca irritación ocular grave.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.
Flam. Liq. 3 / H226	Sustancias líquidas inflamables	Líquidos y vapores inflamables.
STOT SE 3 / H335	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede irritar las vías respiratorias.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación	Provoca lesiones oculares graves.

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

ocular

Procedimiento de clasificación

Clasificación de mezclas y del método de evaluación aplicado según el Reglamento (CE) Nº 1272/2008 [CLP]

Flam. Liq. 2	Sustancias líquidas inflamables	Conforme a datos obtenidos de los ensayos.
Eye Dam. 1	Lesiones oculares graves o irritación ocular	Método de cálculo.
STOT SE 3	Toxicidad específica en determinados órganos (STOT) – exposición única	Método de cálculo.

Abreviaciones y acrónimos

ADR	Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera
LEP	Valores límites de puesto de trabajo
VLB	Valor límite biológico
CAS	Servicio de resumen químico
CLP	Clasificación, etiquetado y envasado
CMR	Carcinógeno, mutágeno o tóxico para la reproducción
DIN	Instituto Alemán de Normalización
DNEL	Nivel sin efecto derivado
EAKV	Catálogo Europeo de Residuos
EC	Concentración efectivo
CE	Comunidad Europea
EN	European Standard
IATA-DGR	Asociación Internacional de Transporte Aéreo – Reglamentos de mercancías peligrosas
IBC Code	Código internacional para la construcción y el equipo de buques que transporten productos químicos peligrosos a granel
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
Código IMDG	Código Marítimo Internacional de Mercancías Peligrosas
ISO	La Organización Internacional de Normalización
LC	Concentración letal
LD	Dosis letal
MARPOL	Convenio Internacional para prevenir la contaminación por los buques
OCDE	Organización para la Cooperación y el Desarrollo Económicos
PBT	Persistente, bioacumulable y tóxico
PNEC	Concentración prevista sin efecto
REACH	Registro, evaluación, autorización y restricción de las sustancias y preparados químicos
RID	Reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril
ONU	United Nations
COV	Compuestos orgánicos volátiles
mPmB	muy persistentes y muy bioacumulativas

Informaciones adicionales

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

Las informaciones de esta hoja de datos de seguridad son a base de nuestro conocimiento actual así como reglamentos nacionales y de la UE.El producto sólo se puede añadir a las aplicaciones mencionadas en el sección 1 sin autorización por escrito.Es siempre la labor del expedidor, de tomar todas las medidas necesarias, para cumplir requisitos de las reglas y leyes locales.Las informaciones en esta hoja de seguridad describe los requisistos de seguridad de nuestro producto y no es una seguridad de las propiedades del producto.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier): 37745
Trade name/designation Thinner
UFI: 5300-P0GY-Y00E-GX66

1.2. [redacted]

Additives for solvent based varnishes

1.3. [redacted]

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Germany

Telephone: +49 6631 785-0
Telefax: +49 6631 785-770

[redacted]

Laboratory
E-mail produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

ethyl lactate
Acetone

[redacted]

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of solvents

[redacted]

[redacted]	[redacted]	[redacted]
200-662-2	01-2119471330-49	
67-64-1	Acetone	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	ethyl lactate	12,5 - 20
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]

First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]

[redacted]

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

[redacted]

Full water jet

5.2. [redacted]

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]

Provide a conveniently located respiratory protective device.

[redacted]

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]
Keep away from sources of ignition.Ventilate affected area. Do not breathe vapours.

6.2. [redacted]
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. [redacted]
Observe protective provisions (see section 7 and 8).

[redacted]

7.1. [redacted]

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

[redacted]
Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

[redacted]
Keep away from strongly acidic and alkaline materials as well as oxidizers.

[redacted]
Keep away from food, drink and animal feedingstuffs.

7.3. [redacted]
Observe technical data sheet.Observe instructions for use.

[redacted]

8.1. [redacted]

Acetone
Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1
WEL, TWA: 1.210 mg/m3; 500 ppm
WEL, STEL: 3.620 mg/m3; 1.500 ppm

[redacted]
TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Source: Acetone

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Method: DIN 53211

[redacted]

Remark: literature value
Source: Acetone

[redacted]

9.2. [redacted]

10.1. [redacted]
No information available.

10.2. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5. [redacted]
not applicable

10.6. [redacted]
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11.1. [redacted]
Based on available data, the classification criteria are not met.

[redacted]
Causes serious eye damage.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
May cause drowsiness or dizziness.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]
The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]
No information available.

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]
Based on available data, the classification criteria are not met.

[redacted]
Toxicological data are not available.

12.2. [redacted]
Toxicological data are not available.

12.3. [redacted]
Toxicological data are not available.

[redacted]
Toxicological data are not available.

12.4. [redacted]
Toxicological data are not available.

12.5. [redacted]
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]
No information available.

12.7 [redacted]
No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1263

14.2. [redacted]

Land transport (ADR/RID):	Paint related material
Sea transport (IMDG):	PAINT RELATED MATERIAL
Air transport (ICAO-TI / IATA-DGR):	Paint related material

14.3. [redacted]

3

14.4. [redacted]

II

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code D/E

[redacted]

EmS-No. F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 822,0

[redacted]

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

[redacted]

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
200-662-2 67-64-1	Acetone	01-2119471330-49

[redacted]

[redacted]

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations

IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

Article No.:	20407	Hardener		
Print date	14.11.2023	Revision date 15.06.2023	EN	
Version	40.0	Issue date 15.06.2023	Page 1 / 9	

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier):	20407
Trade name/designation	Hardener
	UFI: 0800-P0VS-K00E-TMCA

1.2. [redacted]

Hardener for coating materials for industrial applications

1.3. [redacted]

Vibrantz Diegel GmbH
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36304 Alsfeld
Germany

Telephone: +49 6631 785-0
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[redacted]

Laboratory
E-mail: produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number: +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

Xylene
Hexamethylene Diisocyanate Polymer
hexamethylene-di-isocyanate

[redacted]

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of binders, solvents and additives

[redacted]

[redacted]	[redacted]	[redacted]
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Flam. Liq. 3 H226	25 - 50
500-060-2 28182-81-2	01-2119485796-17 Hexamethylene Diisocyanate Polymer Acute Tox. 4 H332 / STOT SE 3 H335 / Skin Sens. 1 H317	25 - 50
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	5 - 10
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226	5 - 10
905-588-0	Reaction mass of ethylene and xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 3 H226	5 - 10
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 4 H302 / Acute Tox. 1 H330 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335 Specific concentration limit (SCL): Resp. Sens. 1 H334 >= 0,5 / Skin Sens. 1 H317 >= 0,5	0,01 - 0,1

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]
First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]
[redacted]
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)
[redacted]
Full water jet

5.2. [redacted]
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]
Provide a conveniently located respiratory protective device.
[redacted]
Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. [redacted]
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % ammonia solution (density= 0.88) 5 vol.%
Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%.
Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to section 13).

6.4. [redacted]
Observe protective provisions (see section 7 and 8).

[redacted]

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

7.1. [redacted]
[redacted]
Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Be careful when opening used containers (excess pressure). Precautionary measures should be taken in order to reduce strain from humidity or water: CO2 is formed which may produce excess pressure in closed containers . Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.
[redacted]
Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

[redacted]

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

[redacted]

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. [redacted]

Observe technical data sheet.Observe instructions for use.

[redacted]

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.
People who spray this preparation should have regular pulmonary function tests.

8.1. [redacted]

Xylene
Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m3; 50 ppm
WEL, STEL: 441 mg/m3; 100 ppm
Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine
Remark: methyl hippuric acid; urine; end of exposure or end of shift

ethylbenzene
Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m3; 100 ppm
WEL, STEL: 552 mg/m3; 125 ppm
Remark: (may be absorbed through the skin)

2-methoxy-1-methylethyl acetate
Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m3; 50 ppm
WEL, STEL: 548 mg/m3; 100 ppm
Remark: (may be absorbed through the skin)

[redacted]

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: ethylbenzene

[redacted]

Source: 2-methoxy-1-methylethyl acetate

[redacted]

Remark: literature value
Source: 2-methoxy-1-methylethyl acetate

[redacted]

Method: DIN 53211

[redacted]

Remark: literature value
Source: ethylbenzene

[redacted]

9.2. [redacted]

[redacted]

10.1. [redacted]

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.2. [redacted]

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.4. [redacted]

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. [redacted]

not applicable

10.6. [redacted]

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

[redacted]

11.1. [redacted]

Harmful if inhaled.

[redacted]

Causes skin irritation.

[redacted]

May cause an allergic skin reaction.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

May cause respiratory irritation.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies: This mixture may cause acute irrtation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract. Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]

No information available.

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]

Toxicological data are not available.

12.2. [redacted]

Toxicological data are not available.

12.3. [redacted]

Toxicological data are not available.

[redacted]

Toxicological data are not available.

12.4. [redacted]

Toxicological data are not available.

12.5. [redacted]

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]

No information available.

12.7 [redacted]

No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1866

14.2. [redacted]

Land transport (ADR/RID):	Resin solution
Sea transport (IMDG):	RESIN SOLUTION
Air transport (ICAO-TI / IATA-DGR):	Resin solution

14.3. [redacted]

3

14.4. [redacted]

III

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code	D/E

[redacted]

EmS-No.	F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 596,0

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
215-535-7 1330-20-7	Xylene	01-2119488216-32
500-060-2 28182-81-2	Hexamethylene Diisocyanate Polymer	01-2119485796-17
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29

[redacted]

[redacted]

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 1 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquids	On basis of test data.
Acute Tox. 4	Acute toxicity (inhalative)	Calculation method.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.

STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier):	45766 CF
Trade name/designation	Laser basic paint black UFI: HNP1-E0WX-E009-AUTP

1.2. [redacted]

Coating plastic

1.3. [redacted]

Vibrantz Diegel GmbH
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[redacted]

Laboratory
E-mail: produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number: +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

ethyl lactate
Acetone

[redacted]

EUH066	Repeated exposure may cause skin dryness or cracking.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of binders, solvents, pigments and additives

[redacted]

[redacted]	[redacted]	[redacted]
200-662-2	01-2119471330-49	
67-64-1	Acetone	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	ethyl lactate	5 - 10
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	
203-539-1	01-2119457435-35	
107-98-2	1-methoxy-2-propanol	5 - 10
603-064-00-3	Flam. Liq. 3 H226 / STOT SE 3 H336	
204-658-1	01-2119485493-29	
123-86-4	n-butyl acetate	2,5 - 5
607-025-00-1	Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	
201-159-0	01-2119457290-43	
78-93-3	Butanone	2,5 - 5
606-002-00-3	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]

First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]

[redacted]

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

[redacted]

Full water jet

5.2. [redacted]

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]

Provide a conveniently located respiratory protective device.

[redacted]

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]

Keep away from sources of ignition.Ventilate affected area. Do not breathe vapours.

6.2. [redacted]

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. [redacted]

Observe protective provisions (see section 7 and 8).

[redacted]

7.1. [redacted]

[redacted]

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

[redacted]

Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

[redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

[redacted]

Keep away from strongly acidic and alkaline materials as well as oxidizers.

[redacted]

Keep away from food, drink and animal feedingstuffs.

7.3. [redacted]

Observe technical data sheet.Observe instructions for use.

[redacted]

8.1. [redacted]

Acetone
Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

WEL, TWA: 1.210 mg/m3; 500 ppm
WEL, STEL: 3.620 mg/m3; 1.500 ppm

1-methoxy-2-propanol
Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m3; 100 ppm
WEL, STEL: 560 mg/m3; 150 ppm
Remark: (may be absorbed through the skin)

Butanone
Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

WEL, TWA: 600 mg/m3; 200 ppm
WEL, STEL: 899 mg/m3; 300 ppm

BMGV, TWA: 70 µmol/L
Remark: butan 2-one; urine; end of exposure or end of shift

[redacted]

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Source: n-butyl acetate

[redacted]

Remark: literature value
Source: 1-methoxy-2-propanol

[redacted]

Remark: literature value
Source: Acetone

[redacted]

9.2. [redacted] *

[redacted]

10.1. [redacted]
No information available.

10.2. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5. [redacted]
not applicable

10.6. [redacted]
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

[redacted]

11.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]
Causes serious eye damage.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
May cause drowsiness or dizziness.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]

No information available.

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]

Toxicological data are not available.

12.2. [redacted]

Toxicological data are not available.

12.3. [redacted]

Toxicological data are not available.

[redacted]

Toxicological data are not available.

12.4. [redacted]

Toxicological data are not available.

12.5. [redacted]

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]

No information available.

12.7 [redacted]

No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1263

14.2. [redacted]

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):	Paint

14.3. [redacted]

3

14.4. [redacted]

II

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code D/E

[redacted]

EmS-No. F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 666,0

[redacted]

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

[redacted]

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
200-662-2 67-64-1	Acetone	01-2119471330-49
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
201-159-0 78-93-3	Butanone	01-2119457290-43

[redacted]

[redacted]

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.

[redacted]

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version

ALM251213_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift)
Shipper (Name & Address)
Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1-3
36304 Alsfeld / Germany

Buchungsnummer(n)
Reference number(s)
Page 1 of 1

Empfänger
Consignee
Preh de Mexico S.A. de C.V.
Tax ID: PME-051004-TYA
Parque Industrial
Kalos Guadalupe, Crio 814
67205 Guadalupe, NL, MEXICO

Beförderer
Carrier
C.H. Robinson GmbH
Langer Kornweg 19 - 23
65431 Kelsterbach

CONTAINER/FAHRZEUG-PACKZERTIFIKAT
CONTAINER/VEHICLE PACKING CERTIFICATE

ERKLÄRUNG
Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde.

DECLARATION
It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1.

AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN
TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES

Container-/Fahrzeug-Nr.:
Container-/Vehicle-Nr.:

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory

Ort und Datum
Place and date

Unterschrift für den Packer
Signature on behalf of packer

Schiffsname und Nummer der Reise
Ship's name and voyage No.

Ladehafen
Port of loading
Hamburg

Löschhafen
Port of discharge
Altamira

(Frei für Text, Anweisungen und sonstige Angaben)
(Reserved for text, instructions or other matter)
Bef.n.Abs.1.1.4.2.1/VibrantzDiegel-29003-NCEC
Emergency Contact 24h Tel.no.: +12024642554

UN-Nr. UN-No.	Inhalt (richtiger technischer Name)* Proper Shipping Name (Correct technical name)*	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN 1263	PAINT	3	II	EDA 3210	1 unit load with 4 x 1A2 steel drum(s)
UN 1263	PAINT RELATED MATERIAL	3	II	EDA 3308	1 unit load with 3 x 1A2 steel drum(s)
UN 1866	RESIN SOLUTION	3	III		2 x 3A1 steel jerrican(s)

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse - Net quantity/volume/mass Netto Explosivstoffmasse*** Net explosive mass***	Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften/Properties Flammpunkt/Flashpoint** MARINE POLLUTANT** Kontroll- und Notfalltemperatur** Control- and emergency temperature**
EDA 3210 126,0 kg 100,0 kg	F-E, S-E	-18 °C c.c.
EDA 3308 90,0 kg 67,5 kg	F-E, S-E	-16 °C c.c.
EDA 3308 14,0 kg 10,0 kg	F-E, S-E	25 °C c.c.

Güter angeliefert als/Goods delivered as:
- ☐ Stückgut/Breakbulk cargo
- ☒ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(container, trailer, tank, vehicle etc.)
- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.)
(This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE – LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Kerstin Lahl/Customer Service/Logistics

Ort und Datum
Place and date
Alsfeld, 08.11.2023

Unterschrift für den Versender
Signature on behalf of shipper
Vibrantz Diegel GmbH
Ernst-Diegel-Straße 1-3
36304 Alsfeld

Druck und Vertrieb:
Dössel & Rademacher, Brandstwiete 42, 20457 Hamburg, Telefon 040-32 32 30-0, Telefax 040-32 32 30-30 **Bestell-Nr. DR299** 05.17
Eigener Entwurf, Nachdruck verboten

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. **Identificador del producto**

No. del artículo (productor/proveedor): 45766 CF
Nombre comercial/denominación: Laser basic paint
black
UFI: HNP1-E0WX-E009-AUTP

1.2. **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

Usos relevantes identificados
Recubrimiento de plástico

1.3. **Datos del proveedor de la ficha de datos de seguridad**

suministrador (fabricante/importador/usuario posterior/comerciante)

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Alemania
Teléfono: +49 6631 785-0
Telefax: +49 6631 785-770

Departamento responsable de la información:
Laboratorio
Correo electrónico: produktsicherheit-diegel@vibrantz.com

1.4. **Teléfono de emergencia**

Teléfono de emergencia: +49 6631 785-0
(Lunes - Jueves 7:15 - 16:15 h)
(Viernes 7:15 - 12:00 h)

SECCIÓN 2: Identificación de los peligros

2.1. **Clasificación de la sustancia o de la mezcla**

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

La mezcla está clasificada como peligrosa según el reglamento (CE) Nº 1272/2008 [CLP].

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.

2.2. **Elementos de la etiqueta**

El producto está clasificado y caracterizado según las lineas de orientazión de la UE o las leyes nacionales correspondientes.

Etiquetado según el Reglamento (CE) nº 1272/2008 [CLP]

Pictograma de peligro



Peligro

Indicaciones de peligro

H225	Líquido y vapores muy inflamables.
H318	Provoca lesiones oculares graves.
H336	Puede provocar somnolencia o vértigo.

Consejos de prudencia

P210	Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.
P280	Llevar guantes y gafas/máscara de protección.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P310	Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
P370 + P378	En caso de incendio: Utilizar polvo extintor o arena para la extinción.
P403 + P233	Almacenar en un lugar bien ventilado. Mantener el recipiente cerrado herméticamente.
P403 + P235	Almacenar en un lugar bien ventilado. Mantener en lugar fresco.

Componentes Peligrosos para etiquetado
(S)-2-hidroxipropionato de etilo
Acetona

Características de peligro suplementarias
EUH066 La exposición repetida puede provocar sequedad o formación de grietas en la piel.

2.3. **Otros peligros**

Noy hay información disponible.

SECCIÓN 3: Composición / información sobre los componentes

3.2. **Mezclas**

Descripción Mezcla de ligantes, disolventes, pigmentos y aditivos

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

N.º CE n.º CAS Número de identificación - UE	Número-REACH Nombre químico clasificación: // Observación	peso %
200-662-2 67-64-1 606-001-00-8	01-2119471330-49 Acetona Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	50 - 100
211-694-1 687-47-8 607-129-00-7	01-2119516234-49 (S)-2-hidroxipropionato de etilo Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	5 - 10
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-metoxi-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	5 - 10
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 Acetato de n-butilo Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	2,5 - 5
201-159-0 78-93-3 606-002-00-3	01-2119457290-43 butanona Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	2,5 - 5

Advertencias complementarias
Texto completo de la clasificación, ver bajo sección 16

SECCIÓN 4: Primeros auxilios

4.1. **Descripción de los primeros auxilios**

Informaciones generales

Al aparecer síntomas o en caso de duda preguntar a un médico. En caso de pérdida de conocimiento no administrar nada por la boca, acostar al afectado en posición lateral estable y preguntar a un médico.

En caso de inhalación
Llevar al accidentado al aire libre y mantenerlo caliente y tranquilo. En el caso de respiración irregular o parálisis de la misma, utilizar la respiración artificial.

Después de contacto con la piel
En caso de contacto con la piel, lávese inmediata- y abundantemente con agua y jabón. Quítese inmediatamente la ropa manchada o salpicada. No emplear ni disolventes ni diluyentes.

En caso de contacto con los ojos
Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llamar inmediatamente ayuda médica.

En caso de ingestión
En caso de ingestión, enjuáguese la boca con agua (solamente si la persona está consciente). Llamar inmediatamente ayuda médica. Mantener a la víctima en posición de reposo. NO provocar el vómito.

4.2. **Principales síntomas y efectos, agudos y retardados**
Al aparecer síntomas o en caso de duda preguntar a un médico.

4.3. **Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**
Ayuda elemental, decontaminación, tratamiento sintomático.

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

SECCIÓN 5: Medidas de lucha contra incendios

5.1. **Medios de extinción**

Medios de extinción apropiados
espuma resistente al alcohol, dióxido de carbono, Polvo, niebla de pulverización, (agua)

Medios de extinción no apropiados
Chorro de agua

5.2. **Peligros específicos derivados de la sustancia o la mezcla**
En caso de incendio se forma denso humo negro. La respiración de productos de descomposición peligrosos puede causar daños de salud graves.

5.3. **Recomendaciones para el personal de lucha contra incendios**
Tener preparado el aparato respiratorio de protección.

Advertencias complementarias
Refrescar con agua los recipientes cerrados que se encuentran en las cercanías del foco de incendio. No dejar llegar el agua de extinción a canalización o al medio acuáticos.

SECCIÓN 6: Medidas en caso de vertido accidental

6.1. **Precauciones personales, equipo de protección y procedimientos de emergencia**
Conservar alejado de toda llama o fuente de chispas.Ventilar la zona afectada. No inhalar los vapores.

6.2. **Precauciones relativas al medio ambiente**
No dejar verter ni en la canalización ni en desagües. Si el producto contamina lagos, ríos o alcantarillas, informar a las autoridades apropiadas de acuerdo a las regulaciones locales.

6.3. **Métodos y material de contención y de limpieza**
Limitar y contener el material desbordado con material absorbente incombustible (p.e. arena, tierra, vermiculita, tierra infusoria) según las ordenanzas locales, juntar en recipientes previstos (ver capítulo 13). Efectuar una limpieza posterior con detergentes. No emplear disolventes.

6.4. **Referencia a otras secciones**
Respetar las disposiciones de seguridad (ver sección 7 y 8).

SECCIÓN 7: Manipulación y almacenamiento

7.1. **Precauciones para una manipulación segura**

Informaciones para manipulación segura

Hay que evitar una concentración de vapor inflamable y explosivo en el aire así como sobrepasar el valor límite del lugar de trabajo. Utilizar el material solo donde se puedan mantener alejados de lúz encendida, fuego y otras fuentes inflamables. Aparatos eléctricos se tienen que proteger según el estandard aprobado. Mantener alejado de fuentes de calor, chispas y llamas. El producto puede cargarse electrostáticamente. Al cambiar de envase utilizar exclusivamente tuberías puestas a tierra . Es aconsejable utilizar ropa y calzado antiestáticos. Utilizar herramientas que no provoquen chispas. Evitar el contacto con la piel, los ojos y la ropa. No inhalar ni vapores ni aerosoles. No comer, beber ni fumar durante su utilización. Protección individual: véase sección 8. Seguir las disposiciones legales de protección y seguridad.

Informaciones adicionales
Los vapores son más pesados que el aire. Vapores pueden formar con aire una mezcla explosiva.

7.2. **Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Requisitos para los lugares de almacenamiento y recipientes
Almacenaje conforme con el reglamento de seguridad de servicio. Consérvese únicamente en el recipiente de origen. Obsérvese las indicaciones en la etiqueta.Manténgase el recipiente bien cerrado. No vaciar los recipientes con presión - no es un recipiente de presión! Prohibido fumar. Prohibido el paso a personas no autorizadas. Mantener los recipientes cerrados en posición vertical, para evitar todo escape del producto. Conservar en locales bien secos y ventilados a una temperatura de 15 °C a 30 °C. Proteger del calor y de las radiaciones solares directas.

Indicaciones sobre el almacenamiento conjunto
Almacenar lejos de substancias ácidas o alcalinas, así como de substancias oxidantes.

Más datos sobre condiciones de almacenamiento
Manténgase lejos de alimentos, bebidas y piensos.

7.3. **Usos específicos finales**
Respetar la hojas técnicas.Tener en cuenta las instrucciones para el uso.

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

SECCIÓN 8: Controles de exposición/protección individual

8.1. **Parámetros de control**

Valores límites de puesto de trabajo

Acetona
Número de identificación - UE 606-001-00-8 / N.º CE 200-662-2 / n.º CAS 67-64-1

TWA: 500 ppm
STEL: 750 ppm

1-metoxi-2-propanol
Número de identificación - UE 603-064-00-3 / N.º CE 203-539-1 / n.º CAS 107-98-2

TWA: 100 ppm
STEL: 150 ppm

Acetato de n-butilo
Número de identificación - UE 607-025-00-1 / N.º CE 204-658-1 / n.º CAS 123-86-4

TWA: 710 mg/m3; 150 ppm
STEL: 950 mg/m3; 200 ppm
Observación: A4

butanona
Número de identificación - UE 606-002-00-3 / N.º CE 201-159-0 / n.º CAS 78-93-3

TWA: 590 mg/m3; 200 ppm
STEL: 885 mg/m3; 300 ppm

Advertencias complementarias
TWA : valor límite del lugar de trabajo de tiempo prolongado
STEL : valor límite del lugar de trabajo de poco tiempo
Ceiling : limitación de los picos de exposición

8.2. **Controles de la exposición**

Asegurar una buena ventilación. Esto se puede conseguir con aspiración local o de la habitación. Si no es suficiente para mantener la concentración de vapores de aerosol y disolventes debajo del valor límite del lugar de trabajo, hay que usar un aparato respiratorio adecuado.

Protección individual

Protección respiratoria
Si la concentración de disolventes sobrepasa el valor límite del lugar de trabajo, hay que utilizar una mascara respiratoria adecuada y autorizada para este objeto. Sólo utilizar aparatos respiratorios con la marca CE incluyendo los cuatro números de prueba.

Protección de la mano
Guantes de protección adecuados resistentes a productos químicos (EN 374) y también para un contacto directo y a largo plazo (recomendación: índice de protección 6; correspondiente a > 480 minutos de tiempo de permeabilidad según EN 374): por ej. de caucho de nitrilo (0.4 mm), caucho de cloropreno (0,5 mm), caucho de butilo (0.7 mm) Indicaciones adicionales: Los datos son los resultados de bibliografía e informaciones sobre los fabricantes de guantes, o bien, de datos análogos de sustancias similares. Hay que considerar, que en la práctica el tiempo de uso diario de unos guantes de protección resistentes a los productos químicos es claramente inferior, debido a muchos factores influyentes (por ej. la temperatura), que el tiempo determinado por los ensayos de permeabilidad.

Protección de ojos y cara
Usar gafas protectoras cerradas si existe peligro de salpicar.

Protección corporal
Utilizar ropa antiestática de fibras naturales (algodón) o de fibras sintéticas resistentes al calor.

Medidas de protección
Después del contacto con la piel lavarse bien con agua y jabón o utilizar un purgante adecuando. No utilizar disolventes orgánicos.

Controles de exposición medioambiental
No dejar verter ni en la canalización ni en desagües. Véase sección 7. No hay que tomar más medidas.

SECCIÓN 9: Propiedades físicas y químicas

9.1. **Información sobre propiedades físicas y químicas básicas**

Estado físico:	**Líquido**
Color:	**véase etiqueta**
Olor:	**segun solventes**
Umbral olfativo:	**no aplicable**
Punto de fusión/punto de congelación:	**no aplicable**
Punto inicial de ebullición e intervalo de ebullición:	**56 °C** Observación: valor teórico Fuente: Acetona
Inflamabilidad:	Líquido y vapores muy inflamables.
Límite superior e inferior de explosividad:	
Límite inferior de explosividad:	**1,94 Vol-%**
Límite superior de explosividad:	**15 Vol-%** Fuente: Acetato de n-butilo
Punto de inflamabilidad:	**-18 °C**
Temperatura de auto-inflamación:	**270 °C** Observación: valor teórico Fuente: 1-metoxi-2-propanol
Temperatura de descomposición:	**no aplicable**
pH a 20 °C:	**no aplicable** Observación: solución en agua
Viscosidad cinemática (40°C):	**< 700 mm²/s**
Viscosidad a 20 °C:	**22-24" DIN 53211 6mm**
Solubilidad(es):	
Solubilidad en agua a 20 °C:	**parcialmente soluble**
Coeficiente de reparto n-octanol/agua:	**véase sección 12**
Presión de vapor a 20 °C:	**247 mbar** Observación: valor teórico Fuente: Acetona
Densidad y/o densidad relativa:	
Densidad a 20 °C:	**0,92 g/cm³**
Densidad de vapor relativa:	**no aplicable**
características de partículas:	**no aplicable**

9.2. **Otra información** *

Contenido sólido:	**27 peso %**
contenido en disolventes:	
Disolventes orgánicos:	**73 peso %**
Agua:	**0 peso %**

SECCIÓN 10: Estabilidad y reactividad

10.1. **Reactividad**
Noy hay información disponible.

10.2. **Estabilidad química**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.3. **Posibilidad de reacciones peligrosas**
Para evitar reacciones exotérmicas, tener lejos de ácidos fuertes, bases fuertes y agentes oxidantes fuertes

10.4. **Condiciones que deben evitarse**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.5. **Materiales incompatibles**

no aplicable

10.6. **Productos de descomposición peligrosos**
A temperaturas elevadas, pueden formarse productos de descomposición peligrosos, tal como: dióxido de carbono, monóxido de carbono, humo, oxidos nítricos.

SECCIÓN 11: Información toxicológica

11.1. **Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008**

Toxicidad aguda

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas; Lesiones oculares graves o irritación ocular

Provoca lesiones oculares graves.

Sensibilización respiratoria o cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Efectos-CMR (cancerígeno, cambio de la masa hereditaria y damnificar la capacidad reproductoria)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición única; Toxicidad específica en determinados órganos (STOT) – exposición repetida

Puede provocar somnolencia o vértigo.

Peligro de aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Experiencias de la práctica/en seres humanos

La inhalación de componentes de disolventes que superen el valor -AGW pueden perjudicar la salud, p.ej. irritaciones de las mucosas, vías respiratorias así como daños hepáticos, renales y del sistema nervioso central. Indicaciones son: dolores de cabeza, vértigo, fatiga, debilidad muscular, obnubilación, en casos graves: inconsciencia. Disolventes pueden causar por absorción por la piel algunos de los efectos anteriormente mencionados. Un contacto largo y repetido con el producto provoca la pérdida de grasa de la piel y puede causar daños de contacto de la piel no alérgicos (dermitis de contacto) y/o la resorpción de la sustancia nociva. Salpicaduras pueden provocar en los ojos irritaciones y lesiones reversibles.

Valoración sentificada de las características de CMR

Los ingredientes de esta mezcla no cumplen los criterios para las categorías 1A o 1B de CMR conforme al CLP.

11.2. **Información relativa a otros peligros**

Propiedades de alteración endocrina
Noy hay información disponible.

SECCIÓN 12: Información ecológica

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]
No existen indicaciones sobre la propia preparación.
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo.

12.1. **Toxicidad**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Largo tiempo Ecotoxicidad

No hay datos toxicológicos.

12.2. **Persistencia y degradabilidad**
No hay datos toxicológicos.

12.3. **Potencial de bioacumulación**
No hay datos toxicológicos.

Factor de bioconcentración (FBC)

No hay datos toxicológicos.

12.4. **Movilidad en el suelo**
No hay datos toxicológicos.

12.5. **Resultados de la valoración PBT y mPmB**

Las sustancias en la mezcla no cumplen con los criterios PBT y mPmB según REACH anexo XIII.

12.6. **Propiedades de alteración endocrina**

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Noy hay información disponible.

12.7. **Otros efectos negativos**
Noy hay información disponible.

SECCIÓN 13: Consideraciones relativas a la eliminación

13.1. **Métodos para el tratamiento de residuos**

Eliminación apropiada / Producto
Recomendación
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo. Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles. Eliminación conforme a la Directiva 2008/98/CE sobre residuos y desechos peligrosos.

Lista de proporciones para clave de residuos/calificación de residuos según AVV
La coordinación de los números de clave de los residuos/marcas de residuos según CER hay que efectuarla espedífcamente de ramo y proceso.

Eliminación apropiada / Embalaje
Recomendación
Los embalajes no contaminados pueden ser reciclados. Los envases no vaciados reglamentariamente son residuos especiales.

SECCIÓN 14: Información relativa al transporte

14.1. **Número ONU o número ID**
UN 1263

14.2. **Designación oficial de transporte de las Naciones Unidas**

Transporte por via terrestre (ADR/RID):	FARBE
Transporte marítimo (IMDG):	PAINT
Transporte aéreo (ICAO-TI / IATA-DGR):	Paint

14.3. **Clase(s) de peligro para el transporte**
3

14.4. **Grupo de embalaje**
II

14.5. **Peligros para el medio ambiente**

Transporte por via terrestre (ADR/RID)	no aplicable
Contaminante marino	no aplicable

14.6. **Precauciones particulares para los usuarios**

Transportar siempre en recipientes cerrados, derechos y seguros. Asegurarse, que las personas que transportan el producto saben lo que hay que hacer en caso de accidente o vertimiento.
Informaciones para manipulación segura: véase partes 6 - 8

Informaciones adicionales

Transporte por via terrestre (ADR/RID)

clave de limitación de túnel	D/E

Transporte marítimo (IMDG)

Número EmS	F-E, S-E

14.7. **Transporte marítimo a granel con arreglo a los instrumentos de la OMI**
Ningung transporte de productos a granel según el Código -IBC.

SECCIÓN 15: Información reglamentaria

15.1. **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

Reglamentos UE

Directiva 2010/75/CE sobre emisiones industriales [Industrial Emissions Directive]
valor de COV (en g/L): 666,0

Reglamentos nacionales

Indicaciones para la limitación de ocupación

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Observar las limitaciones para el empleo conforme a la Directiva 92/85/CEE sobre protección de la maternidad o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.
Observar las limitaciones para el empleo conforme a la ley de protección jurídica del trabajo juvenil (94/33/CE) o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.

Sustancia/producto listado en los siguientes inventarios nacionales:
TSCA (USA): listad

15.2. **Evaluación de la seguridad química**
Une evaluación de la seguridad química fue efectuada para las siguientes sustancias en esta mezcla:

N.º CE n.º CAS	Nombre químico	Número-REACH
200-662-2 67-64-1	Acetona	01-2119471330-49
203-539-1 107-98-2	1-metoxi-2-propanol	01-2119457435-35
204-658-1 123-86-4	Acetato de n-butilo	01-2119485493-29
201-159-0 78-93-3	butanona	01-2119457290-43

SECCIÓN 16: Otra información

Texto completo de la clasificación de la sección 3:

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Irrit. 2 / H319	Lesiones oculares graves o irritación ocular	Provoca irritación ocular grave.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.
Flam. Liq. 3 / H226	Sustancias líquidas inflamables	Líquidos y vapores inflamables.
STOT SE 3 / H335	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede irritar las vías respiratorias.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.

Procedimiento de clasificación
Clasificación de mezclas y del método de evaluación aplicado según el Reglamento (CE) Nº 1272/2008 [CLP]

Flam. Liq. 2	Sustancias líquidas inflamables	Conforme a datos obtenidos de los ensayos.
Eye Dam. 1	Lesiones oculares graves o irritación ocular	Método de cálculo.
STOT SE 3	Toxicidad específica en determinados órganos (STOT) – exposición única	Método de cálculo.

Abreviaciones y acrónimos

ADR	Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera
LEP	Valores límites de puesto de trabajo
VLB	Valor límite biológico
CAS	Servicio de resumen químico
CLP	Clasificación, etiquetado y envasado
CMR	Carcinógeno, mutágeno o tóxico para la reproducción
DIN	Instituto Alemán de Normalización
DNEL	Nivel sin efecto derivado
EAKV	Catálogo Europeo de Residuos
EC	Concentración efectivo
CE	Comunidad Europea
EN	European Standard
IATA-DGR	Asociación Internacional de Transporte Aéreo – Reglamentos de mercancías peligrosas
IBC Code	Código internacional para la construcción y el equipo de buques que transporten productos químicos peligrosos a granel
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
Código IMDG	Código Marítimo Internacional de Mercancías Peligrosas
ISO	La Organización Internacional de Normalización
LC	Concentración letal
LD	Dosis letal

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MARPOL	Convenio Internacional para prevenir la contaminación por los buques
OCDE	Organización para la Cooperación y el Desarrollo Económicos
PBT	Persistente, bioacumulable y tóxico
PNEC	Concentración prevista sin efecto
REACH	Registro, evaluación, autorización y restricción de las sustancias y preparados químicos
RID	Reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril
ONU	United Nations
COV	Compuestos orgánicos volátiles
mPmB	muy persistentes y muy bioacumulativas

Informaciones adicionales
Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

Las informaciones de esta hoja de datos de seguridad son a base de nuestro conocimiento actual así como reglamentos nacionales y de la UE.El producto sólo se puede añadir a las aplicaciones mencionadas en el sección 1 sin autorización por escrito.Es siempre la labor del expedidor, de tomar todas las medidas necesarias, para cumplir requisitos de las reglas y leyes locales.Las informaciones en esta hoja de seguridad describe los requisistos de seguridad de nuestro producto y no es una seguridad de las propiedades del producto.

* Datos frente la versión anterior modificados

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SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. **Identificador del producto**

No. del artículo (productor/proveedor):	37745
Nombre comercial/denominación	Thinner UFI: 5300-P0GY-Y00E-GX66

1.2. **Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

Usos relevantes identificados
Aditivo para esmaltes con contenido de disolvente

1.3. **Datos del proveedor de la ficha de datos de seguridad**

suministrador (fabricante/importador/usuario posterior/comerciante)

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Alemania

Teléfono: +49 6631 785-0
Telefax: +49 6631 785-770

Departamento responsable de la información:
Laboratorio
Correo electrónico: produktsicherheit-diegel@vibrantz.com

1.4. **Teléfono de emergencia**

Teléfono de emergencia: +49 6631 785-0
(Lunes - Jueves 7:15 - 16:15 h)
(Viernes 7:15 - 12:00 h)

SECCIÓN 2: Identificación de los peligros

2.1. **Clasificación de la sustancia o de la mezcla**

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

La mezcla está clasificada como peligrosa según el reglamento (CE) Nº 1272/2008 [CLP].

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación ocular	Provoca lesiones oculares graves.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.

2.2. **Elementos de la etiqueta**

El producto está clasificado y caracterizado según las lineas de orientazión de la UE o las leyes nacionales correspondientes.

Etiquetado según el Reglamento (CE) nº 1272/2008 [CLP]

Pictograma de peligro



Peligro

Indicaciones de peligro

H225	Líquido y vapores muy inflamables.
H318	Provoca lesiones oculares graves.
H336	Puede provocar somnolencia o vértigo.

Consejos de prudencia

P210	Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.
P280	Llevar guantes y gafas/máscara de protección.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P310	Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
P370 + P378	En caso de incendio: Utilizar polvo extintor o arena para la extinción.
P403 + P233	Almacenar en un lugar bien ventilado. Mantener el recipiente cerrado herméticamente.
P403 + P235	Almacenar en un lugar bien ventilado. Mantener en lugar fresco.

Componentes Peligrosos para etiquetado

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(S)-2-hidroxipropionato de etilo
Acetona

Características de peligro suplementarias
EUH066 La exposición repetida puede provocar sequedad o formación de grietas en la piel.

2.3. **Otros peligros**

Noy hay información disponible.

SECCIÓN 3: Composición / información sobre los componentes

3.2. **Mezclas**

Descripción Mezcla de disolventes

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

N.º CE n.º CAS Número de identificación - UE	Número-REACH Nombre químico clasificación: // Observación	peso %
200-662-2	01-2119471330-49	
67-64-1	Acetona	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	(S)-2-hidroxipropionato de etilo	12,5 - 20
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	

Advertencias complementarias
Texto completo de la clasificación, ver bajo sección 16

SECCIÓN 4: Primeros auxilios

4.1. **Descripción de los primeros auxilios**

Informaciones generales

Al aparecer síntomas o en caso de duda preguntar a un médico. En caso de pérdida de conocimiento no administrar nada por la boca, acostar al afectado en posición lateral estable y preguntar a un médico.

En caso de inhalación
Llevar al accidentado al aire libre y mantenerlo caliente y tranquilo. En el caso de respiración irregular o parálisis de la misma, utilizar la respiración artificial.

Después de contacto con la piel
En caso de contacto con la piel, lávese inmediata- y abundantemente con agua y jabón. Quítese inmediatamente la ropa manchada o salpicada. No emplear ni disolventes ni diluyentes.

En caso de contacto con los ojos
Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llamar inmediatamente ayuda médica.

En caso de ingestión
En caso de ingestión, enjuáguese la boca con agua (solamente si la persona está consciente). Llamar inmediatamente ayuda médica. Mantener a la víctima en posición de reposo. NO provocar el vómito.

4.2. **Principales síntomas y efectos, agudos y retardados**
Al aparecer síntomas o en caso de duda preguntar a un médico.

4.3. **Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**
Ayuda elemental, decontaminación, tratamiento sintomático.

SECCIÓN 5: Medidas de lucha contra incendios

5.1. **Medios de extinción**

Medios de extinción apropiados
espuma resistente al alcohol, dióxido de carbono, Polvo, niebla de pulverización, (agua)

Medios de extinción no apropiados
Chorro de agua

5.2. **Peligros específicos derivados de la sustancia o la mezcla**
En caso de incendio se forma denso humo negro. La respiración de productos de descomposición peligrosos puede causar daños de salud graves.

5.3. **Recomendaciones para el personal de lucha contra incendios**
Tener preparado el aparato respiratorio de protección.

Advertencias complementarias
Refrescar con agua los recipientes cerrados que se encuentran en las cercanías del foco de incendio. No dejar llegar el agua de extinción a canalización o al medio acuáticos.

SECCIÓN 6: Medidas en caso de vertido accidental

6.1. **Precauciones personales, equipo de protección y procedimientos de emergencia**
Conservar alejado de toda llama o fuente de chispas.Ventilar la zona afectada. No inhalar los vapores.

6.2. **Precauciones relativas al medio ambiente**
No dejar verter ni en la canalización ni en desagües. Si el producto contamina lagos, ríos o alcantarillas, informar a las autoridades apropiadas de acuerdo a las regulaciones locales.

6.3. **Métodos y material de contención y de limpieza**
Limitar y contener el material desbordado con material absorbente incombustible (p.e. arena, tierra, vermiculita, tierra infusoria) según las ordenanzas locales, juntar en recipientes previstos (ver capítulo 13). Efectuar una limpieza posterior con detergentes. No emplear disolventes.

6.4. **Referencia a otras secciones**
Respetar las disposiciones de seguridad (ver sección 7 y 8).

SECCIÓN 7: Manipulación y almacenamiento

7.1. **Precauciones para una manipulación segura**

Informaciones para manipulación segura

Hay que evitar una concentración de vapor inflamable y explosivo en el aire así como sobrepasar el valor límite del lugar de trabajo. Utilizar el material solo donde se puedan mantener alejados de lúz encendida, fuego y otras fuentes inflamables. Aparatos eléctricos se tienen que proteger según el estandard aprobado. Mantener alejado de fuentes de calor, chispas y llamas. El producto puede cargarse electrostáticamente. Al cambiar de envase utilizar exclusivamente tuberías puestas a tierra . Es aconsejable utilizar ropa y calzado antiestáticos. Utilizar herramientas que no provoquen chispas. Evitar el contacto con la piel, los ojos y la ropa. No inhalar ni vapores ni aerosoles. No comer, beber ni fumar durante su utilización. Protección individual: véase sección 8. Seguir las disposiciones legales de protección y seguridad.

Informaciones adicionales
Los vapores son más pesados que el aire. Vapores pueden formar con aire una mezcla explosiva.

7.2. **Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Requisitos para los lugares de almacenamiento y recipientes
Almacenaje conforme con el reglamento de seguridad de servicio. Consérvese únicamente en el recipiente de origen. Obsérvese las indicaciones en la etiqueta.Manténgase el recipiente bien cerrado. No vaciar los recipientes con presión - no es un recipiente de presión! Prohibido fumar. Prohibido el paso a personas no autorizadas. Mantener los recipientes cerrados en posición vertical, para evitar todo escape del producto. Conservar en locales bien secos y ventilados a una temperatura de 15 °C a 30 °C. Proteger del calor y de las radiaciones solares directas.

Indicaciones sobre el almacenamiento conjunto
Almacenar lejos de substancias ácidas o alcalinas, así como de substancias oxidantes.

Más datos sobre condiciones de almacenamiento
Manténgase lejos de alimentos, bebidas y piensos.

7.3. **Usos específicos finales**
Respetar la hojas técnicas.Tener en cuenta las instrucciones para el uso.

SECCIÓN 8: Controles de exposición/protección individual

8.1. **Parámetros de control**
Valores límites de puesto de trabajo

Acetona
Número de identificación - UE 606-001-00-8 / N.º CE 200-662-2 / n.º CAS 67-64-1

TWA: 500 ppm
STEL: 750 ppm

Advertencias complementarias
TWA : valor límite del lugar de trabajo de tiempo prolongado
STEL : valor límite del lugar de trabajo de poco tiempo

Ceiling : limitación de los picos de exposición

8.2. **Controles de la exposición**

Asegurar una buena ventilación. Esto se puede conseguir con aspiración local o de la habitación. Si no es suficiente para mantener la concentración de vapores de aerosol y disolventes debajo del valor límite del lugar de trabajo, hay que usar un aparato respiratorio adecuado.

Protección individual

Protección respiratoria

Si la concentración de disolventes sobrepasa el valor límite del lugar de trabajo, hay que utilizar una mascara respiratoria adecuada y autorizada para este objeto. Sólo utilizar aparatos respiratorios con la marca CE incluyendo los cuatro números de prueba.

Protección de la mano

Guantes de protección adecuados resistentes a productos químicos (EN 374) y también para un contacto directo y a largo plazo (recomendación: índice de protección 6; correspondiente a > 480 minutos de tiempo de permeabilidad según EN 374): por ej. de caucho de nitrilo (0.4 mm), caucho de cloropreno (0,5 mm), caucho de butilo (0.7 mm) Indicaciones adicionales: Los datos son los resultados de bibliografía e informaciones sobre los fabricantes de guantes, o bien, de datos análogos de sustancias similares. Hay que considerar, que en la práctica el tiempo de uso diario de unos guantes de protección resistentes a los productos químicos es claramente inferior, debido a muchos factores influyentes (por ej. la temperatura), que el tiempo determinado por los ensayos de permeabilidad.

Protección de ojos y cara

Usar gafas protectoras cerradas si existe peligro de salpicar.

Protección corporal

Utilizar ropa antiestática de fibras naturales (algodón) o de fibras sintéticas resistentes al calor.

Medidas de protección

Después del contacto con la piel lavarse bien con agua y jabón o utilizar un purgante adecuando. No utilizar disolventes orgánicos.

Controles de exposición medioambiental

No dejar verter ni en la canalización ni en desagües. Véase sección 7. No hay que tomar más medidas.

SECCIÓN 9: Propiedades físicas y químicas

9.1. **Información sobre propiedades físicas y químicas básicas**

Estado físico:	**Líquido**
Color:	**véase etiqueta**
Olor:	**segun solventes**
Umbral olfativo:	**no aplicable**
Punto de fusión/punto de congelación:	**no aplicable**
Punto inicial de ebullición e intervalo de ebullición:	**56 °C** Observación: valor teórico Fuente: Acetona
Inflamabilidad:	Líquido y vapores muy inflamables.
Límite superior e inferior de explosividad:	
Límite inferior de explosividad:	**2,03 Vol-%**
Límite superior de explosividad:	**13 Vol-%** Fuente: Acetona
Punto de inflamabilidad:	**-16 °C**
Temperatura de auto-inflamación:	**465 °C** Observación: valor teórico Fuente: Acetona
Temperatura de descomposición:	**no aplicable**
pH a 20 °C:	**no aplicable** Observación: solución en agua
Viscosidad cinemática (40°C):	**< 20 mm²/s**

Viscosidad a 20 °C:	**11 s 4 mm** Método: DIN 53211
Solubilidad(es):	
Solubilidad en agua a 20 °C:	**mezclable con agua**
Coeficiente de reparto n-octanol/agua:	**véase sección 12**
Presión de vapor a 20 °C:	**247 mbar** Observación: valor teórico Fuente: Acetona
Densidad y/o densidad relativa:	
Densidad a 20 °C:	**0,82 g/cm³**
Densidad de vapor relativa:	**no aplicable**
características de partículas:	**no aplicable**

9.2. **Otra información**

Contenido sólido:	**0 peso %**
contenido en disolventes:	
Disolventes orgánicos:	**100 peso %**
Agua:	**0 peso %**

SECCIÓN 10: Estabilidad y reactividad

10.1. **Reactividad**
Noy hay información disponible.

10.2. **Estabilidad química**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.3. **Posibilidad de reacciones peligrosas**
Para evitar reacciones exotérmicas, tener lejos de ácidos fuertes, bases fuertes y agentes oxidantes fuertes

10.4. **Condiciones que deben evitarse**
Estable bajo aplicación de las normas y almacenaje recomendados. Otras informaciones sobre almacenaje correcto: véase sección 7.

10.5. **Materiales incompatibles**
no aplicable

10.6. **Productos de descomposición peligrosos**
A temperaturas elevadas, pueden formarse productos de descomposición peligrosos, tal como: dióxido de carbono, monóxido de carbono, humo, oxidos nítricos.

SECCIÓN 11: Información toxicológica

11.1. **Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008**

Toxicidad aguda

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas; Lesiones oculares graves o irritación ocular

Provoca lesiones oculares graves.

Sensibilización respiratoria o cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Efectos-CMR (cancerígeno, cambio de la masa hereditaria y damnificar la capacidad reproductoria)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición única; Toxicidad específica en determinados órganos (STOT) – exposición repetida

Puede provocar somnolencia o vértigo.

Peligro de aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Experiencias de la práctica/en seres humanos

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

La inhalación de componentes de disolventes que superen el valor -AGW pueden perjudicar la salud, p.ej. irritaciones de las mucosas, vías respiratorias así como daños hepáticos, renales y del sistema nervioso central. Indicaciones son: dolores de cabeza, vértigo, fatiga, debilidad muscular, obnubilación, en casos graves: inconsciencia. Disolventes pueden causar por absorción por la piel algunos de los efectos anteriormente mencionados. Un contacto largo y repetido con el producto provoca la pérdida de grasa de la piel y puede causar daños de contacto de la piel no alérgicos (dermitis de contacto) y/o la resorpción de la sustancia nociva. Salpicaduras pueden provocar en los ojos irritaciones y lesiones reversibles.

Valoración sentificada de las características de CMR

Los ingredientes de esta mezcla no cumplen los criterios para las categorías 1A o 1B de CMR conforme al CLP.

11.2. **Información relativa a otros peligros**

Propiedades de alteración endocrina
Noy hay información disponible.

SECCIÓN 12: Información ecológica

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]
No existen indicaciones sobre la propia preparación.
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo.

12.1. **Toxicidad**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Largo tiempo Ecotoxicidad

No hay datos toxicológicos.

12.2. **Persistencia y degradabilidad**
No hay datos toxicológicos.

12.3. **Potencial de bioacumulación**
No hay datos toxicológicos.

Factor de bioconcentración (FBC)

No hay datos toxicológicos.

12.4. **Movilidad en el suelo**
No hay datos toxicológicos.

12.5. **Resultados de la valoración PBT y mPmB**

Las sustancias en la mezcla no cumplen con los criterios PBT y mPmB según REACH anexo XIII.

12.6. **Propiedades de alteración endocrina**
Noy hay información disponible.

12.7. **Otros efectos negativos**
Noy hay información disponible.

SECCIÓN 13: Consideraciones relativas a la eliminación

13.1. **Métodos para el tratamiento de residuos**

Eliminación apropiada / Producto
Recomendación
No dejar verter ni en la canalización ni en desagües. No dejar que entre en el subsuelo/suelo. Elimínense los residuos del producto y sus recipientes con todas las precauciones posibles. Eliminación conforme a la Directiva 2008/98/CE sobre residuos y desechos peligrosos.

Lista de proporciones para clave de residuos/calificación de residuos según AVV
La coordinación de los números de clave de los residuos/marcas de residuos según CER hay que efectuarla espedífcamente de ramo y proceso.

Eliminación apropiada / Embalaje
Recomendación
Los embalajes no contaminados pueden ser reciclados. Los envases no vaciados reglamentariamente son residuos especiales.

SECCIÓN 14: Información relativa al transporte

14.1. **Número ONU o número ID**

UN 1263

14.2. **Designación oficial de transporte de las Naciones Unidas**

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

Transporte por via terrestre (ADR/RID):	FARBZUBEHÖRSTOFFE
Transporte marítimo (IMDG):	PAINT RELATED MATERIAL
Transporte aéreo (ICAO-TI / IATA-DGR):	Paint related material

14.3. **Clase(s) de peligro para el transporte**

3

14.4. **Grupo de embalaje**

II

14.5. **Peligros para el medio ambiente**

Transporte por via terrestre (ADR/RID)	no aplicable
Contaminante marino	no aplicable

14.6. **Precauciones particulares para los usuarios**

Transportar siempre en recipientes cerrados, derechos y seguros. Asegurarse, que las personas que transportan el producto saben lo que hay que hacer en caso de accidente o vertimiento.
Informaciones para manipulación segura: véase partes 6 - 8

Informaciones adicionales

Transporte por via terrestre (ADR/RID)

clave de limitación de túnel	D/E

Transporte marítimo (IMDG)

Número EmS	F-E, S-E

14.7. **Transporte marítimo a granel con arreglo a los instrumentos de la OMI**

Ningung transporte de productos a granel según el Código -IBC.

SECCIÓN 15: Información reglamentaria

15.1. **Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**

Reglamentos UE

Directiva 2010/75/CE sobre emisiones industriales [Industrial Emissions Directive]
valor de COV (en g/L): 822,0

Reglamentos nacionales

Indicaciones para la limitación de ocupación
Observar las limitaciones para el empleo conforme a la Directiva 92/85/CEE sobre protección de la maternidad o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.
Observar las limitaciones para el empleo conforme a la ley de protección jurídica del trabajo juvenil (94/33/CE) o de acuerdo con las disposiciones nacionales progresivamente más estrictas, cuando proceda.

Sustancia/producto listado en los siguientes inventarios nacionales:
TSCA (USA): listad

15.2. **Evaluación de la seguridad química**
Une evaluación de la seguridad química fue efectuada para las siguientes sustancias en esta mezcla:

N.º CE n.º CAS	Nombre químico	Número-REACH
200-662-2 67-64-1	Acetona	01-2119471330-49

SECCIÓN 16: Otra información

Texto completo de la clasificación de la sección 3:

Flam. Liq. 2 / H225	Sustancias líquidas inflamables	Líquido y vapores muy inflamables.
Eye Irrit. 2 / H319	Lesiones oculares graves o irritación ocular	Provoca irritación ocular grave.
STOT SE 3 / H336	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede provocar somnolencia o vértigo.
Flam. Liq. 3 / H226	Sustancias líquidas inflamables	Líquidos y vapores inflamables.
STOT SE 3 / H335	Toxicidad específica en determinados órganos (STOT) – exposición única	Puede irritar las vías respiratorias.
Eye Dam. 1 / H318	Lesiones oculares graves o irritación	Provoca lesiones oculares graves.

Ficha de datos de seguridad
conforme al Reglamento (CE) n.° 1907/2006 (REACH)
conforme al Reglamento (UE) 2020/878

ocular

Procedimiento de clasificación

Clasificación de mezclas y del método de evaluación aplicado según el Reglamento (CE) Nº 1272/2008 [CLP]

Flam. Liq. 2	Sustancias líquidas inflamables	Conforme a datos obtenidos de los ensayos.
Eye Dam. 1	Lesiones oculares graves o irritación ocular	Método de cálculo.
STOT SE 3	Toxicidad específica en determinados órganos (STOT) – exposición única	Método de cálculo.

Abreviaciones y acrónimos

ADR	Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera
LEP	Valores límites de puesto de trabajo
VLB	Valor límite biológico
CAS	Servicio de resumen químico
CLP	Clasificación, etiquetado y envasado
CMR	Carcinógeno, mutágeno o tóxico para la reproducción
DIN	Instituto Alemán de Normalización
DNEL	Nivel sin efecto derivado
EAKV	Catálogo Europeo de Residuos
EC	Concentración efectivo
CE	Comunidad Europea
EN	European Standard
IATA-DGR	Asociación Internacional de Transporte Aéreo – Reglamentos de mercancías peligrosas
IBC Code	Código internacional para la construcción y el equipo de buques que transporten productos químicos peligrosos a granel
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
Código IMDG	Código Marítimo Internacional de Mercancías Peligrosas
ISO	La Organización Internacional de Normalización
LC	Concentración letal
LD	Dosis letal
MARPOL	Convenio Internacional para prevenir la contaminación por los buques
OCDE	Organización para la Cooperación y el Desarrollo Económicos
PBT	Persistente, bioacumulable y tóxico
PNEC	Concentración prevista sin efecto
REACH	Registro, evaluación, autorización y restricción de las sustancias y preparados químicos
RID	Reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril
ONU	United Nations
COV	Compuestos orgánicos volátiles
mPmB	muy persistentes y muy bioacumulativas

Informaciones adicionales

Clasificación según el Reglamento (CE) Nº 1272/2008 [CLP]

Las informaciones de esta hoja de datos de seguridad son a base de nuestro conocimiento actual así como reglamentos nacionales y de la UE.El producto sólo se puede añadir a las aplicaciones mencionadas en el sección 1 sin autorización por escrito.Es siempre la labor del expedidor, de tomar todas las medidas necesarias, para cumplir requisitos de las reglas y leyes locales.Las informaciones en esta hoja de seguridad describe los requisistos de seguridad de nuestro producto y no es una seguridad de las propiedades del producto.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier): 37745
Trade name/designation Thinner
UFI: 5300-P0GY-Y00E-GX66

1.2. [redacted]

Additives for solvent based varnishes

1.3. [redacted]

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Germany

Telephone: +49 6631 785-0
Telefax: +49 6631 785-770

[redacted]

Laboratory
E-mail produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

ethyl lactate
Acetone

[redacted]

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of solvents

[redacted]

[redacted]	[redacted]	[redacted]
200-662-2	01-2119471330-49	
67-64-1	Acetone	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	ethyl lactate	12,5 - 20
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]

First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]

[redacted]

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

[redacted]

Full water jet

5.2. [redacted]

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]

Provide a conveniently located respiratory protective device.

[redacted]

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]
Keep away from sources of ignition.Ventilate affected area. Do not breathe vapours.

6.2. [redacted]
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. [redacted]
Observe protective provisions (see section 7 and 8).

[redacted]

7.1. [redacted]

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

[redacted]
Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

[redacted]
Keep away from strongly acidic and alkaline materials as well as oxidizers.

[redacted]
Keep away from food, drink and animal feedingstuffs.

7.3. [redacted]
Observe technical data sheet.Observe instructions for use.

[redacted]

8.1. [redacted]

Acetone
Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1
WEL, TWA: 1.210 mg/m3; 500 ppm
WEL, STEL: 3.620 mg/m3; 1.500 ppm

[redacted]
TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Source: Acetone

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Method: DIN 53211

[redacted]

Remark: literature value
Source: Acetone

[redacted]

9.2. [redacted]

10.1. [redacted]
No information available.

10.2. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5. [redacted]
not applicable

10.6. [redacted]
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11.1. [redacted]
Based on available data, the classification criteria are not met.

[redacted]
Causes serious eye damage.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
May cause drowsiness or dizziness.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]
The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]
No information available.

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]
Based on available data, the classification criteria are not met.

[redacted]
Toxicological data are not available.

12.2. [redacted]
Toxicological data are not available.

12.3. [redacted]
Toxicological data are not available.

[redacted]
Toxicological data are not available.

12.4. [redacted]
Toxicological data are not available.

12.5. [redacted]
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]
No information available.

12.7 [redacted]
No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1263

14.2. [redacted]

Land transport (ADR/RID):	Paint related material
Sea transport (IMDG):	PAINT RELATED MATERIAL
Air transport (ICAO-TI / IATA-DGR):	Paint related material

14.3. [redacted]

3

14.4. [redacted]

II

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code D/E

[redacted]

EmS-No. F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 822,0

[redacted]

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

[redacted]

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
200-662-2 67-64-1	Acetone	01-2119471330-49

[redacted]

[redacted]

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations

IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

Article No.:	20407	Hardener		
Print date	14.11.2023	Revision date 15.06.2023	EN	
Version	40.0	Issue date 15.06.2023	Page 1 / 9	

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier):	20407
Trade name/designation	Hardener
	UFI: 0800-P0VS-K00E-TMCA

1.2. [redacted]

Hardener for coating materials for industrial applications

1.3. [redacted]

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Germany

Telephone: +49 6631 785-0
Telefax: +49 6631 785-770

[redacted]

Laboratory
E-mail: produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number: +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

Xylene
Hexamethylene Diisocyanate Polymer
hexamethylene-di-isocyanate

[redacted]

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of binders, solvents and additives

[redacted]

[redacted]	[redacted]	[redacted]
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Flam. Liq. 3 H226	25 - 50
500-060-2 28182-81-2	01-2119485796-17 Hexamethylene Diisocyanate Polymer Acute Tox. 4 H332 / STOT SE 3 H335 / Skin Sens. 1 H317	25 - 50
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	5 - 10
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226	5 - 10
905-588-0	Reaction mass of ethylene and xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 3 H226	5 - 10
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 4 H302 / Acute Tox. 1 H330 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335 Specific concentration limit (SCL): Resp. Sens. 1 H334 >= 0,5 / Skin Sens. 1 H317 >= 0,5	0,01 - 0,1

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]
First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]
[redacted]
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)
[redacted]
Full water jet

5.2. [redacted]
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]
Provide a conveniently located respiratory protective device.
[redacted]
Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. [redacted]
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % ammonia solution (density= 0.88) 5 vol.%
Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%.
Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to section 13).

6.4. [redacted]
Observe protective provisions (see section 7 and 8).

[redacted]

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

7.1. [redacted]
[redacted]
Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Be careful when opening used containers (excess pressure). Precautionary measures should be taken in order to reduce strain from humidity or water: CO2 is formed which may produce excess pressure in closed containers . Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.
[redacted]
Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

[redacted]

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

[redacted]

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. [redacted]

Observe technical data sheet.Observe instructions for use.

[redacted]

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.
People who spray this preparation should have regular pulmonary function tests.

8.1. [redacted]

Xylene
Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m3; 50 ppm
WEL, STEL: 441 mg/m3; 100 ppm
Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine
Remark: methyl hippuric acid; urine; end of exposure or end of shift

ethylbenzene
Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m3; 100 ppm
WEL, STEL: 552 mg/m3; 125 ppm
Remark: (may be absorbed through the skin)

2-methoxy-1-methylethyl acetate
Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m3; 50 ppm
WEL, STEL: 548 mg/m3; 100 ppm
Remark: (may be absorbed through the skin)

[redacted]

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: ethylbenzene

[redacted]

Source: 2-methoxy-1-methylethyl acetate

[redacted]

Remark: literature value
Source: 2-methoxy-1-methylethyl acetate

[redacted]

Method: DIN 53211

[redacted]

Remark: literature value
Source: ethylbenzene

[redacted]

9.2. [redacted]

[redacted]

10.1. [redacted]

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.2. [redacted]

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.4. [redacted]

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. [redacted]

not applicable

10.6. [redacted]

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

[redacted]

11.1. [redacted]

Harmful if inhaled.

[redacted]

Causes skin irritation.

[redacted]

May cause an allergic skin reaction.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

May cause respiratory irritation.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies: This mixture may cause acute irrtation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract. Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]

No information available.

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]

Toxicological data are not available.

12.2. [redacted]

Toxicological data are not available.

12.3. [redacted]

Toxicological data are not available.

[redacted]

Toxicological data are not available.

12.4. [redacted]

Toxicological data are not available.

12.5. [redacted]

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]

No information available.

12.7 [redacted]

No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1866

14.2. [redacted]

Land transport (ADR/RID):	Resin solution
Sea transport (IMDG):	RESIN SOLUTION
Air transport (ICAO-TI / IATA-DGR):	Resin solution

14.3. [redacted]

3

14.4. [redacted]

III

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code	D/E

[redacted]

EmS-No.	F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 596,0

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
215-535-7 1330-20-7	Xylene	01-2119488216-32
500-060-2 28182-81-2	Hexamethylene Diisocyanate Polymer	01-2119485796-17
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29

[redacted]

[redacted]

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 1 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquids	On basis of test data.
Acute Tox. 4	Acute toxicity (inhalative)	Calculation method.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.

STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

[redacted]

VIBRANTZ TECHNOLOGIES™
DIEGEL SPECIALTY COATINGS

[redacted]

1.1. [redacted]

Article No. (manufacturer/supplier):	45766 CF
Trade name/designation	Laser basic paint black UFI: HNP1-E0WX-E009-AUTP

1.2. [redacted]

Coating plastic

1.3. [redacted]

Vibrantz Diegel GmbH
Ernst-Diegel-Str. 1 - 3
36304 Alsfeld
Germany

Telephone: +49 6631 785-0
Telefax: +49 6631 785-770

[redacted]

Laboratory
E-mail: produktsicherheit-diegel@vibrantz.com

1.4. [redacted]

Emergency telephone number: +49 6631 785-0
(Monday - Thursday 7:15 - 16:15 h)
(Friday 7:15 - 12:00 h)

[redacted]

2.1. [redacted]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.

2.2. [redacted]

The product is classified and labelled according to EC directives or corresponding national laws.

[redacted]



[redacted]

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

[redacted]

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

[redacted]

ethyl lactate
Acetone

[redacted]

EUH066	Repeated exposure may cause skin dryness or cracking.

2.3. [redacted]

No information available.

[redacted]

3.2. [redacted]

[redacted] Mixture of binders, solvents, pigments and additives

[redacted]

[redacted]	[redacted]	[redacted]
200-662-2	01-2119471330-49	
67-64-1	Acetone	50 - 100
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	
211-694-1	01-2119516234-49	
687-47-8	ethyl lactate	5 - 10
607-129-00-7	Flam. Liq. 3 H226 / STOT SE 3 H335 / Eye Dam. 1 H318	
203-539-1	01-2119457435-35	
107-98-2	1-methoxy-2-propanol	5 - 10
603-064-00-3	Flam. Liq. 3 H226 / STOT SE 3 H336	
204-658-1	01-2119485493-29	
123-86-4	n-butyl acetate	2,5 - 5
607-025-00-1	Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	
201-159-0	01-2119457290-43	
78-93-3	Butanone	2,5 - 5
606-002-00-3	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	

[redacted]

Full text of classification: see section 16

[redacted]

4.1. [redacted]

[redacted]

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

[redacted]

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

[redacted]

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Do not use solvents or thinners.

[redacted]

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

[redacted]

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. [redacted]

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. [redacted]

First Aid, decontamination, treatment of symptoms.

[redacted]

5.1. [redacted]

[redacted]

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

[redacted]

Full water jet

5.2. [redacted]

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. [redacted]

Provide a conveniently located respiratory protective device.

[redacted]

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

[redacted]

6.1. [redacted]

Keep away from sources of ignition.Ventilate affected area. Do not breathe vapours.

6.2. [redacted]

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. [redacted]

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. [redacted]

Observe protective provisions (see section 7 and 8).

[redacted]

7.1. [redacted]

[redacted]

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

[redacted]

Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. [redacted]

[redacted]

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

[redacted]

Keep away from strongly acidic and alkaline materials as well as oxidizers.

[redacted]

Keep away from food, drink and animal feedingstuffs.

7.3. [redacted]

Observe technical data sheet.Observe instructions for use.

[redacted]

8.1. [redacted]

Acetone
Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

WEL, TWA: 1.210 mg/m3; 500 ppm
WEL, STEL: 3.620 mg/m3; 1.500 ppm

1-methoxy-2-propanol
Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m3; 100 ppm
WEL, STEL: 560 mg/m3; 150 ppm
Remark: (may be absorbed through the skin)

Butanone
Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

WEL, TWA: 600 mg/m3; 200 ppm
WEL, STEL: 899 mg/m3; 300 ppm

BMGV, TWA: 70 µmol/L
Remark: butan 2-one; urine; end of exposure or end of shift

[redacted]

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. [redacted]

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

[redacted]

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

[redacted]

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) Supplementary note: The specifications are based on literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

[redacted]

Wear closely fitting protective glasses in case of splashes.

[redacted]

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

[redacted]

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use any organic solvents.

[redacted]

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

[redacted]

9.1. [redacted]

[redacted]

Remark: literature value
Source: Acetone

[redacted]

Source: n-butyl acetate

[redacted]

Remark: literature value
Source: 1-methoxy-2-propanol

[redacted]

Remark: literature value
Source: Acetone

[redacted]

9.2. [redacted] *

[redacted]

10.1. [redacted]
No information available.

10.2. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. [redacted]
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. [redacted]
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5. [redacted]
not applicable

10.6. [redacted]
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

[redacted]

11.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]
Causes serious eye damage.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
Based on available data, the classification criteria are not met.

[redacted]
May cause drowsiness or dizziness.

[redacted]

Based on available data, the classification criteria are not met.

[redacted]

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

[redacted]

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. [redacted]

No information available.

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1. [redacted]

Based on available data, the classification criteria are not met.

[redacted]

Toxicological data are not available.

12.2. [redacted]

Toxicological data are not available.

12.3. [redacted]

Toxicological data are not available.

[redacted]

Toxicological data are not available.

12.4. [redacted]

Toxicological data are not available.

12.5. [redacted]

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 [redacted]

No information available.

12.7 [redacted]

No information available.

[redacted]

13.1. [redacted]

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

[redacted]

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

[redacted]

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

[redacted]

14.1. [redacted]

UN 1263

14.2. [redacted]

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):	Paint

14.3. [redacted]

3

14.4. [redacted]

II

14.5. [redacted]

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. [redacted]

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

[redacted]

Tunnel restriction code D/E

[redacted]

EmS-No. F-E, S-E

14.7. [redacted]

No transport as bulk according IBC - Code.

[redacted]

15.1. [redacted]

VOC-value (in g/L): 666,0

[redacted]

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

[redacted]

TSCA (USA): listed

15.2. [redacted]

[redacted]	[redacted]	[redacted]
200-662-2 67-64-1	Acetone	01-2119471330-49
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
201-159-0 78-93-3	Butanone	01-2119457290-43

[redacted]

[redacted]

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.

[redacted]

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

[redacted]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

[redacted]

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German Industrial Standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

[redacted]

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version

Shipper

C.H. ROBINSON EUROPE B.V.
TELEPORTBOULEVARD 120
NL811514274B0
1043 EJ AMSTERDAM

B/L No.
ALM251213

SACO SHIPPING LINE LTD

Consigned to order of

CH ROBINSON GLOBAL FORWARDING, MEXICO SA DE CV
AV EUGENIO GARZA LAGÜERA NO 955
PISO 4 ZONA VALLE ORIENTE NORTE
R.F.C. CRG-180816-GA9
66260 MONTERREY, NLE

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address

3/12/BRE/525108

Copy

Place of receipt
HAMBURG CFS

Ocean vessel
TOKYO EXPRESS 006W

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	ALTAMIRA	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
00707-697/0000 - PO 40160758/AB175 647 PREH MEXICO S.A D E C.V 814 CRIO PARQUE I NDUSTRIAL KALOS CFS ALTAMIRA NOT STACKABLE STOWED INTO CONTAINER NO.: TCLU1531421	2 PACKAGES	PAINT HS CODE 32089091 UN 1263, IMO 3,II 7 DRUMS RESIN SOLUTION HS CODE 32089091 UN 1866, IMO 3 III 2 DRUMS	SEAL : WWA010171086	230,000	1,133
TOTAL	**2 PACKAGES**			**230,000 KGS**	**1,133 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper

QCS-QUICK CARGO SERVICE GMBH
WERNER-WITT-STRASSE 5
TAX-ID: DE114202533
TELEPHONE: 0049408662530
21035 HAMBURG, GERMANY

B/L No.
ALM251215

SACO SHIPPING LINE LTD

Consigned to order of

AIRMAR TRANSPORTES
INTERNACIONALES S.A. DE C.V.
ATI-930702-9F8
NORTE 174 549 COL. PENSADOR MEXICAN
MX MEXICO, D.F. DELEG VENUSTIANO

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address

AIRMAR TRANSPORTES INTERNACIONALES
S.A., DE C.V. SUCURSAL GUADALAJARA
POPOCATEPETL NO.69 COL CIUDAD DEL
SOL, CP. 45050 ZAPOPAN, JALISCO,
ATI-930702-9F8, TEL:0052(33)500
ATTE: ALEJANDRA GONZALEZ

3/12/BRE/525109

Copy

	Place of receipt
	HAMBURG CFS
Ocean vessel	**Port of loading**
TOKYO EXPRESS 006W	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	DESTINATION	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
MONDI GRUPO ANTOLIN SILAO	4 PALLETS	PAPER COATED POLYETHYLENE AS PER INVOICE: 510081539 HS-CODE: 481159		3098,000	6,192

STOWED INTO CONTAINER NO.: TCLU1531421 SEAL : WWA010171086

TOTAL	**4 PALLETS**	**3098,000 KGS**	**6,192 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Place and date of issue

HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

INTERFRACHT CONTAINER OVERSEAS
SERVICE GMBH - AS AGENT FOR AND ON
BEHALF OF ICOS LINE LTD. AS CARRIER
BERGIUSSTR. 1
28816 STUHR, GERMANY

B/L No.
ALM251219

SACO SHIPPING LINE LTD

Consigned to order of

CARGOLIVE, S. DE R.L. DE C.V.
TAX ID : CAR091028R36
PLATON 409, COL. POLANCO,
DEL. MIGUEL HIDALGO
MEXICO D.F. C.P. 11560, MEXICO

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE

EMAIL: PROJECTS@CARGOLIVELOG.COM

3/12/BRE/525110

Copy

Place of receipt
BREMEN CFS

Ocean vessel
TOKYO EXPRESS

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2 25900 RAMOS ARIZPE, COAH., MEXICO	1 CASE	TOOLS HS-CODES: 82055980, 82090020, 82074030, 84669400, 84569110, 82022000, 85043200, 84249080, 82041100		220,000	1,229

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**1 CASE**	**220,000 KGS**	**1,229 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 01.12.2023

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

INTERFRACHT CONTAINER OVERSEAS
SERVICE GMBH - AS AGENT FOR AND ON
BEHALF OF ICOS LINE LTD. AS CARRIER
BERGIUSSTR. 1
28816 STUHR, GERMANY

B/L No.
ALM251220

SACO SHIPPING LINE LTD

Consigned to order of

CARGOLIVE, S. DE R.L. DE C.V.
TAX ID : CAR091028R36
PLATON 409, COL. POLANCO,
DEL. MIGUEL HIDALGO
MEXICO D.F. C.P. 11560, MEXICO

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE

EMAIL:PROJECTS@CARGOLIVELOG.COM

3/12/BRE/525111

Copy

Place of receipt
BREMEN CFS

Ocean vessel
TOKYO EXPRESS

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
ZF POWERTRAIN MODULES SALTILLO S.A. DE C.V INDUSTRIA METALURGICA 1010-2 25900 RAMOS ARIZPE, COAH., MEXICO	1 CASE	PIPES AND MATERIAL HS-CODES: 73041100, 73044100, 73181900, 73079210, 73079290, 84249080, 85444290, 85444995		1100,000	2,903

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**1 CASE**	**1100,000 KGS**	**2,903 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

APC LOGISTICS GERMANY
HALSKESTR. 32
40880 RATINGEN
GERMANY
TAX-ID:DE324954295

B/L No.
ALM251222

SACO SHIPPING LINE LTD

Consigned to order of

EUROPARTNERS MEXICO, S.A. DE C.V.
TELS: (52)(81) 82202630
AV. REVOLUCION 649
COLONIA JARDIN ESPANOL MONTERREY
NUEVO LEON MEXICO, C.P. 64820
RFC: EME020824U4A

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE

EMAIL: ANGEL.PEREZ@XPDGLOBAL.COM

3/12/BRE/525112

Copy

Place of receipt
BREMEN CFS

Ocean vessel
TOKYO EXPRESS

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
VKI 10016856 EX. NEUMANN ALUMINIUM, ROTTENBURG MOTHERSON TECNO PRECISION MEXIKO S.A. MX	1 PALLET	PUMP HOUSING HS CODE: 84139100		346,640	0,634

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**1**	**PALLET**	**346,640 KGS**	**0,634 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

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b) assumes liability as prescribed in this document for such transport.

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Place and date of issue
BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

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A Member of WorldWideAlliance

Shipper

RHENUS FREIGHT LOGISTICS GMBH &
LILIENTHALSTRASSE 17A
D-85356 HALLBERGMOOS
GERMANY
AS AGENT FOR CLOUD OCEAN LINE LTD.

Consigned to order of

RHENUS AIR&OCEAN MEXICO S.A. DE C.V
AVENIDA RIO CHURUBUSCO 601,
PISO 17 OFICINA 04COLONIA XOCO
ALCALDIA BENITO JUAREZ CDMX
03330 MEXICO
MEXICO
AS AGENT FOR CLOUD OCEAN LINE LTD.

Notify Party and address

SAME AS CONSIGNEE
P: +52 55 4810-7487
E: SEA.OPS@MX.RHENUS.COM

B/L No.
ALM251230

SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

3/12/BRE/525113

Copy

Place of receipt	
	SPITAL AM PYHRN
Ocean vessel	**Port of loading**
TOKYO EXPRESS 006W	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	HAMBURG	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
ORDER: 107579	20 PALLETS	REAR CAP		5670,240	13,440
INVOICE: 13186511		HS CODE: 87089910			
STOWED INTO CONTAINER NO.: TCLU1531421				SEAL : WWA010171086	
TOTAL	**20 PALLETS**			**5670,240 KGS**	**13,440 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

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Place and date of issue

HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

A Member of WorldWideAlliance

Shipper

LINKINPARTNER EUROPE GMBH
HAMMERBROOKSTR. 90
20097 HAMBURG

B/L No.
ALM251231

SACO SHIPPING LINE LTD

Consigned to order of

EUROPARTNERS MEXICO S.A.DE C.V.
RFC: EME020824U4A
COLONIA JARDIN ESPANOL MONTERREY
AVENIDA REVOLUCION 649
64820 MONTERREY, NL

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address

SAME AS CONSIGNEE

3/12/BRE/525114

Copy

Place of receipt

HAMBURG CFS

Ocean vessel

TOKYO EXPRESS 006W

Port of loading

HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	ALTAMIRA	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
ZKW MEXICO DN 23111642	1 PACKAGES	SCREWS AND BOLTS INVOICE:23111663 HS-CODE:731815 FREIGHT COLLECT		116,000	0,079

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**1 PACKAGES**	**116,000 KGS**	**0,079 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

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Place and date of issue

HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

A Member of WorldWideAlliance

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper

NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY

B/L No.
ALM251232

SACO SHIPPING LINE LTD

Consigned to order of

NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALETA 1306-A, INT. 132
COLONIA SANTA CRUZ BUENAVISTA
PUEBLA PUE 72150 MEXICO

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

Notify Party and address

SAME AS CONSIGNEE

+522225036510
SEA@NGL-MEXICO.COM
RFC+NNG201012KD4

3/12/BRE/525115

Copy

Place of receipt

BREMEN CFS

Ocean vessel

TOKYO EXPRESS

Port of loading

HAMBURG, GERMANY

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA, MEXICO	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
PO LIGHTING MEXICO S. DE R.L. DE C.V. 608 AVENIDA PARQUE INDUSTRIAL MONTERREY APODACA 666 03 NUEVO LEON MX	1 PALLET	MOTOR CAR ACCESSORIES HS-CODE: 701400		22,000	0,091
STOWED INTO CONTAINER NO.: TCLU1531421			SEAL : WWA010171086		
TOTAL	**1 PALLET**			**22,000 KGS**	**0,091 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

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Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

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A Member of WorldWideAlliance

Shipper

ROECHLING INDUSTRIAL SE & CO. KG
ROECHLINGSTR. 1
HAREN 49733 GERMANY

B/L No.
ALM251234

SACO SHIPPING LINE LTD

Consigned to order of

ECC CONVERSION CENTER, SA DE CV
CARRETERA A LAREDO NO. 1000 INT. 3-A
COL. MOISES SAENZ
APODACA NLE 66613 MEXICO

RFC+ECC210909PH4

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525116

Notify Party and address

ECC CONVERSION CENTER, SA DE CV
CARRETERA A LAREDO NO. 1000 INT. 3-A
COL. MOISES SAENZ
APODACA NLE 66613 MEXICO
RFC+ECC210909PH4
EMAIL: SARA CARRILLO
SARA_CARRILLO@EICCOMPANY.COM

Copy

Place of receipt

BREMEN CFS

Ocean vessel	Port of loading
TOKYO EXPRESS	HAMBURG, GERMANY

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA, MEXICO	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
ECC CONVERSION CENTER, SA DE CV CARRETERA A LAREDO NO. 1000 INT. 3-A COL. MOISES SAENZ 66613 APODACA, NUEVO LEON MEXICO	3 CASES	LIGNOSTONE -SQUARE NUTS HS CODE: 442199		783,000	2,976
STOWED INTO CONTAINER NO.: TCLU1531421			SEAL : WWA010171086		
TOTAL	**3 CASES**			**783,000 KGS**	**2,976 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

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Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

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A Member of WorldWideAlliance

EUROPÄISCHE GEMEINSCHAFT

Ausfuhrbegleitdokument

VERFAHREN (1): EX | A | Bes. Umst. (S32)

MRN 23DE740120538256B7

Vordrucke (3): 1 | 2 — Anm. Sich.(S00): S

Versender/Ausführer (2) — Nr. DE2801329

JN EBERLE CIE
Eberlestr. 28
86157 Augsburg
DE

A Ausfuhrzollstelle

DE007401
Hauptzollamt Augsburg
Zollamt Göggingen
Depotstr. 8

86199 Augsburg

Ausstellungsdatum: 16.11.2023 10:40 Uhr

Empfänger (8) — Nr.

GONTOOLS, SA de CV
Ave. Adolfo Ruiz Cortinez # 2933 ote Col. Coyoacan
C.P. 6451 Monterrey, N.L.
MX

Positionen (5): 1 | Packst. insgesamt (6): 2 | Bezugsnummer (7): 26362/S10-23003482 / 26362/S10-2300

Beförderungskosten, Code für die Zahlungshinweise (S29) | Vers./Ausf.L.Code (15): a| DE | Bestimm.L.Code (17): a| MX

Code für die zu durchfahrenden Länder (S13): DE, MX

Anmelder/Vertreter (14) — Nr. DE2801329

[1] JN EBERLE CIE
Eberlestr. 28
86157 Augsburg
DE

Vertreter der Person, die summ. Anm. abgibt (14b)

Kennzeichen des Beförderungsmittels beim Abgang (18): UNBEKANNT

Verkehrszweig an der Grenze (25): 1

Rohmasse (kg) (35): 976

Ausgangszollstelle (29): DE004851

Nummer des Zollverschlusses (S28): -- — Anzahl: --

Warenort (30): Code für den Ort des Verladens bzw. des Verpackens: AU01

Packstücke und Warenbezeichnung (31) — Zeichen und Nummern - Container Nr. - Anzahl und Art

Siehe Liste der Positionen

E PRÜFUNG DURCH DIE ZOLLSTELLE

Ergebnis:

Frist (letzter Tag):

K PRÜFUNG DURCH DIE AUSGANGSSTELLE

Ankunftsdatum:

Prüfung der Verschlüsse:

Bemerkungen:

EUROPÄISCHE GEMEINSCHAFT

LISTE DER WARENPOSITIONEN - AUSFUHR

Vordrucke (3): 2 | 2

MRN 23DE740120538256B7

Pos.- Nr. (32)	Anzahl und Art der Packstücke, Zeichen und Nummern der Packstücke (31.1)	Warenbezeichnung (31.4)			
Versender/Ausführer (2)		Empfänger (8)			
Kennzeichen des Beförderungsmittels beim Abgang (18)		Warennummer (33)			
Kennnummer der Sendung (Unique Consignment Ref. Nr.) (7)		Summarische Anmeldung/Vorpapier (40)			
Vorgelegte Unterlagen / Bescheinigungen (44.1)		Container-Nr. (31.3)			Nummer des Zollverschlusses (S28)
Besondere Vermerke (44.2)		Verfahren (37)	Ausfuhrland (15a)	Bestimmungsl. (17a)	Rohmasse (kg) (35)
UNDG (44.4)	Beförderungskosten, Code für die Zahlungsweise (S29)	Anmeldungsart (1)	Statistischer Wert (46)		Eigenmasse (kg) (38)
1	1. 2 PK, Packung/Packstück 1 - 2	Bandsägeblätter aus unedlen Metallen			
DE2801329 JN EBERLE CIE Eberlestr. 28 86157 Augsburg (DE) Deutschland					
		82022000			
		ohne			
		1000	DE	MX	976
					946

Shipper

J.N. EBERLE & CIE GMBH
EBERLESTR. 28
86157 AUGSBURG, GERMANY
VAT-NR. DE811165710

B/L No.
ALM251244

SACO SHIPPING LINE LTD

Consigned to order of

GONTOOLS, SA DE CV
AVE. ADOLFO RUIZ CORTINEZ
2933 OTE COL. COYOACAN
MONTERREY, N.L. 64510, MEXICO
RFC. GON-030910-C28
JORGE_GLZ@GONTOOL.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525117

Notify Party and address

BROKER: JORGE LUIS BERISTAIN DE LA PENA
PATENT NUMBER: 3670
EMPARAN # 418 3ER PISO COLONIA CENTRO
VERACRUZ 91700, MEXICO
TAX-ID: BAS960418G89
FPEREZ@BERISTAIN.COM.MX

Copy

Place of receipt

BREMEN CFS

Ocean vessel	Port of loading
TOKYO EXPRESS	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
23017616, 23017640 GONTOOLS, SA DE CV AVE. ADOLFO RUIZ CORTINEZ # 2933 OTE COL. COYOACAN MX-C.P. 64510 MONTERREY, N.L. STOWED INTO CONTAINER NO.: TCLU1531421	2 CARTONS	PACKED ON 2 PALLETS METALBAND SAW BLADES HS CODE: 82022000		976,000	1,816

SEAL : WWA010171086

TOTAL	**2 CARTONS**	**976,000 KGS**	**1,816 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

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Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper
LINKINPARTNER EUROPE GMBH

HAMMERBROOKSTR. 90
20097 HAMBURG

B/L No.
ALM251248

SACO SHIPPING LINE LTD

Consigned to order of
EUROPARTNERS MEXICO S.A.DE C.V.
RFC: EME020824U4A
COLONIA JARDIN ESPANOL MONTERREY
AVENIDA REVOLUCION 649
64820 MONTERREY, NL

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address
SAME AS CONSIGNEE

3/12/BRE/525118

Copy

Place of receipt
HAMBURG CFS

Ocean vessel
TOKYO EXPRESS 006W

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	DESTINATION	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
MARELLI MEXICO DELIVERY NOTE: 83051892	3 PACKAGES	S.T.C THROTTLE POSITION SENSOR IRT3 6PX INV: 98022454 HS CODE: 903180 INCOTERM: EXW KAUNAS		350,000	4,068

STOWED INTO CONTAINER NO.: TCLU1531421 SEAL : WWA010171086

TOTAL	**3 PACKAGES**	**350,000 KGS**	**4,068 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:
INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

A Member of WorldWideAlliance

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:
The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
LINKINPARTNER EUROPE GMBH

HAMMERBROOKSTR. 90
20097 HAMBURG

B/L No.
ALM251250

SACO SHIPPING LINE LTD

Consigned to order of
EUROPARTNERS MEXICO S.A.DE C.V.
RFC: EME020824U4A
COLONIA JARDIN ESPANOL MONTERREY
AVENIDA REVOLUCION 649
64820 MONTERREY, NL

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address
SAME AS CONSIGNEE

3/12/BRE/525119

Copy

Place of receipt
HAMBURG CFS

Ocean vessel
TOKYO EXPRESS 006W

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	DESTINATION	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
MAGNA ELECTRONICS	2 PALLETS	S.T.C. FERRITE CORES INV: 296696035, 296696002 HS-CODE: 850490 FREIGHT COLLECT INCOTERM: FCA SKIERNIEWICE		317,000	1,646

STOWED INTO CONTAINER NO.: TCLU1531421 SEAL : WWA010171086

TOTAL **2 PALLETS** **317,000 KGS** **1,646 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:
INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and

b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

A Member of WorldWideAlliance

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:
The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

ALM251260_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4

This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name& Anschrift)/Shipper (Name & Address) Liebherr -Components Biberach GmbH Dr . Hans Liebherr Straße 45 88400 Biberach/Riss Deutschland	Buchungsnummer(n)/Reference number(s)
Empfänger/Consignee Liebherr Monterrey S.DE R.L DE C.V. Carretera Monterrey-Garcia KM. 11, COL. El Duranzo C.P. 66000 Garcia, N.L. Mexico	Beförderer/Carrier
CONTAINER/FAHRZEUG-PACKZERTIFIKAT **CONTAINER/VEHICLE PACKING CERTIFICATE** **ERKLÄRUNG** Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. **DECLARATION** It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1. AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES	Container-/Fahrzeug-Nr.: Container-/Vehicle-Nr.: Name/Funktion, Unternehmen/Organisation des Unterzeichners/ Name/status. company/organization of signatory Fried-Sped, Ummendorf, gel. Herr Ort und Datum/ Place and date: Ummendorf,
Schiffsname und Nummer der Reise/ Ship's name and voyage No Ladehafen/ Port ot loading Bremerhaven Löschhafen / Port of discharge Altamira	Unterschrift für den Packer/ Signature on behalf of packer (Frei für Text, Anweisungen und sonstige Angaben)/ (Reserved for text. instructions or other matter) Dörken Emergency Number : +17035273887

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unter-klasse nach IMO IMO-Class	Verpackungs gruppe/ Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art/ No. and kind of packages
UN1263	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT	3	III	Order No.: 1467998 P#4084338	1 pallet inculding include 2 barrel (1A2) each 30l

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge (Volumen/Masse) Net quantity (volume/mass) Netto Explosivstoffmasse*** Net explosive mass ***	Merkblatt-Nr. für Unfall-Maßnahmen EmS-Code	Eigenschaften/Properties Flammpunkt/Flashpoint ** MARINE POLLUTANT Kontroll- und Notfalltemperatur ** Control- and emergency temperature **
Brutto: 75,00 kg Netto: 60,00 kg	F - E S - E	Flashpoint : 23-55 °C MARINE POLLUTION

Güter angeliefert als/Goods delivered as;

- ☐ Stückgut/Breakbulk cargo
- ☐ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger. Tank, Fahrzeug usw.)
Type of unit
(Container, trailer, tank, vehicle etc.)

- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift frei-gelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort .ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE - ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE - LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Ann-Kathrin John

Ort und Datum
Place and date Ummendorf, 25.10.2023

Unterschrift für den Versender
Signature on behalf of shipper

ALM251260_25_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4

This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III, regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name& Anschrift)/Shipper (Name & Address) Liebherr -Components Biberach GmbH Dr . Hans Liebherr Straße 45 88400 Biberach/Riss Deutschland	Buchungsnummer(n)/Reference number(s)
Empfänger/Consignee Liebherr Monterrey S.DE R.L DE C.V. Carretera Monterrey-Garcia KM. 11, COL. El Duranzo C.P. 66000 Garcia, N.L. Mexico	Beförderer/Carrier
CONTAINER/FAHRZEUG-PACKZERTIFIKAT **CONTAINER/VEHICLE PACKING CERTIFICATE** **ERKLÄRUNG** Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. **DECLARATION** It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1. AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES	Container-/Fahrzeug-Nr.: Container-/Vehicle-Nr.: Name/Funktion, Unternehmen/Organisation des Unterzeichners/ Name/status, company/organization of signatory Fried-Sped, Ummendorf, gel. Herr Ort und Datum/ Place and date: Ummendorf,
Schiffsname und Nummer der Reise/ Ship's name and voyage No Ladehafen/ Port of loading Bremerhaven	Unterschrift für den Packer/ Signature on behalf of packer (Frei für Text, Anweisungen und sonstige Angaben)/ (Reserved for text. instructions or other matter)
Löschhafen / Port of discharge Altamira	Dörken Emergency Number : +17035273887

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe/ Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art/ No. and kind of packages
UN1263	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT	3	III	Order No.: 1467998 P#4084338	1 pallet inculding include 2 barrel (1A2) each 30l

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge (Volumen/Masse) Net quantity (volume/mass) Netto Explosivstoffmasse*** Net explosive mass ***	Merkblatt-Nr. für Unfall-Maßnahmen EmS-Code	Eigenschaften/Properties Flammpunkt/Flashpoint ** MARINE POLLUTANT Kontroll- und Notfalltemperatur ** Control- and emergency temperature **
Brutto: 72,00 kg Netto: 60,00 kg	F - E S - E	Flashpoint : 23 °C MARINE POLLUTION

Güter angeliefert als/Goods delivered as;

- ☐ Stückgut/Breakbulk cargo
- ☐ Ladungseinheiten (Unit Loads)
- ☐ Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(Container, trailer, tank, vehicle etc.)

- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE - ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE - LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Ann-Kathrin John

Ort und Datum
Place and date
Ummendorf, 25.08.2025

FRIED SPED
Intern. Spedition GmbH
88444 Ummendorf, Fabrikstr. 1

Unterschrift für den Versender
Signature on behalf of shipper

ALM251260_1_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4

This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III. regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name& Anschrift)/Shipper (Name & Address) Liebherr -Components Biberach GmbH Dr . Hans Liebherr Straße 45 88400 Biberach/Riss Deutschland	Buchungsnummer(n)/Reference number(s)
Empfänger/Consignee Liebherr Monterrey S.DE R.L DE C.V. Carretera Monterrey-Garcia KM. 11, COL. El Duranzo C.P. 66000 Garcia, N.L. Mexico	Beförderer/Carrier
CONTAINER/FAHRZEUG-PACKZERTIFIKAT **CONTAINER/VEHICLE PACKING CERTIFICATE** **ERKLÄRUNG** Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. **DECLARATION** It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1. AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES	Container-/Fahrzeug-Nr.: Container-/Vehicle-Nr.: Name/Funktion, Unternehmen/Organisation des Unterzeichners/ Name/status. company/organization of signatory Fried-Sped, Ummendorf, gel. Herr Ort und Datum/ Place and date: Ummendorf,
Schiffsname und Nummer der Reise/ Ship's name and voyage No Ladehafen/ Port ot loading Bremerhaven Löschhafen / Port of discharge Altamira	Unterschrift für den Packer/ Signature on behalf of packer (Frei für Text, Anweisungen und sonstige Angaben)/ (Reserved for text. instructions or other matter) Dörken Emergency Number : +17035273887

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unter-klasse nach IMO IMO-Class	Verpackungs gruppe/ Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art/ No. and kind of packages
UN1263	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT	3	III	Order No.: 1467998 P#4084338	1 pallet inculding include 2 barrel (1A2) each 30l

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge (Volumen/Masse) Net quantity (volume/mass) Netto Explosivstoffmasse*** Net explosive mass ***	Merkblatt-Nr. für Unfall-Maßnahmen EmS-Code	Eigenschaften/Properties Flammpunkt/Flashpoint ** MARINE POLLUTANT Kontroll- und Notfalltemperatur ** Control- and emergency temperature **
Brutto: 75,00 kg Netto: 60,00 kg	F - E S - E	Flashpoint : 23-55 °C MARINE POLLUTION

Güter angeliefert als/Goods delivered as;

- ☐ Stückgut/Breakbulk cargo
- ☐ Ladungseinheiten (Unit Loads) Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger. Tank, Fahrzeug usw.)
Type of unit
(Container, trailer, tank, vehicle etc.)

- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift frei-gelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort .ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE - ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE - LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
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ERKLÄRUNG
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DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Ann-Kathrin John

Ort und Datum
Place and date Ummendorf, 25.10.2023

Unterschrift für den Versender
Signature on behalf of shipper

ALM251260_25_1/1

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG)

TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4

This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III, regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name& Anschrift)/Shipper (Name & Address) Liebherr -Components Biberach GmbH Dr . Hans Liebherr Straße 45 88400 Biberach/Riss Deutschland	Buchungsnummer(n)/Reference number(s)
Empfänger/Consignee Liebherr Monterrey S.DE R.L DE C.V. Carretera Monterrey-Garcia KM. 11, COL. El Duranzo C.P. 66000 Garcia, N.L. Mexico	Beförderer/Carrier
CONTAINER/FAHRZEUG-PACKZERTIFIKAT **CONTAINER/VEHICLE PACKING CERTIFICATE** **ERKLÄRUNG** Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. **DECLARATION** It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1. AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES	Container-/Fahrzeug-Nr.: Container-/Vehicle-Nr.: Name/Funktion, Unternehmen/Organisation des Unterzeichners/ Name/status, company/organization of signatory Fried-Sped, Ummendorf, gel. Herr Ort und Datum/ Place and date: Ummendorf,
Schiffsname und Nummer der Reise/ Ship's name and voyage No Ladehafen/ Port of loading Bremerhaven	Unterschrift für den Packer/ Signature on behalf of packer (Frei für Text, Anweisungen und sonstige Angaben)/ (Reserved for text. instructions or other matter)
Löschhafen / Port of discharge Altamira	Dörken Emergency Number : +17035273887

UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unterklasse nach IMO IMO-Class	Verpackungsgruppe/ Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art/ No. and kind of packages
UN1263	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT	3	III	Order No.: 1467998 P#4084338	1 pallet inculding include 2 barrel (1A2) each 30l

Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge (Volumen/Masse) Net quantity (volume/mass) Netto Explosivstoffmasse*** Net explosive mass ***	Merkblatt-Nr. für Unfall-Maßnahmen EmS-Code	Eigenschaften/Properties Flammpunkt/Flashpoint ** MARINE POLLUTANT Kontroll- und Notfalltemperatur ** Control- and emergency temperature **
Brutto: 72,00 kg Netto: 60,00 kg	F - E S - E	Flashpoint : 23 °C MARINE POLLUTION

Güter angeliefert als/Goods delivered as;

- ☐ Stückgut/Breakbulk cargo
- ☐ Ladungseinheiten (Unit Loads)
- ☐ Unitized cargo
- ☐ Bulkverpackungen/Bulk packages

Art der Einheit
(Container, Anhänger, Tank, Fahrzeug usw.)
Type of unit
(Container, trailer, tank, vehicle etc.)

- ☐ offen/open
- ☐ geschlossen/closed

Zutreffendes ankreuzen/Insert "X" in appropriate box
(Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)

* Marken- oder Handelsnamen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL" vor den Namen setzen; (2) „LEER UNGEREINIGT" oder „RÜCKSTÄNDE - ZULETZT ENTHALTEN" hinzufügen; (3) „BEGRENZTE MENGE" hinzufügen.
** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1;
* Proprietary/trade names alone are not sufficient. If applicable: (1) the word "WASTE" should precede the name; (2) "EMPTY UNCLEANED" or "RESIDUE - LAST CONTAINED" should be added; (3) "LIMITED QUANTITY" should be added.
** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;

ZUSÄTZLICHE ANGABEN
Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite).
ADDITIONAL INFORMATION
In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).

ERKLÄRUNG
Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand.

DECLARATION
I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.

Name/Funktion, Unternehmen/Organisation des Unterzeichners
Name/status, company/organization of signatory
Ann-Kathrin John

Ort und Datum
Place and date
Ummendorf, 25.08.2025

FRIED SPED
Intern. Spedition GmbH
88444 Ummendorf, Fabrikstr. 1

Unterschrift für den Versender
Signature on behalf of shipper

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.10.2015 *Version number 05-00* *Revision: 16.10.2015*

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: DELTA®-TONE 9000 SILBER**

· **Article number:** 08400022
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Coating material

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Dörken MKS-Systeme GmbH & Co.KG

Wetterstrasse 58
D-58313 Herdecke

Tel.: (0049) 02330 / 63 - 0
Fax: (0049) 02330 / 63 - 355
E-mail: msds.mks@doerken.de

· **Further information obtainable from:** CHEMTREC®
· **1.4 Emergency telephone number:**
+(44)-870-8200418 (UK)
000-800-100-7141 (India)
+1 703-527--3887 (International)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.
Water-react. 2 H261 In contact with water releases flammable gases.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

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Skin Irrit. 2 H315 Causes skin irritation.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***



GHS02 GHS05 GHS07 GHS08 GHS09

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Butyl Titanat Monomer
2-ethylhexan-1-ol
Trimethoxyvinylsilan
· ***Hazard statements***
H226 Flammable liquid and vapour.
H261 In contact with water releases flammable gases.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
· ***Precautionary statements***

P223	*Do not allow contact with water.*
P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P231+P232	*Handle under inert gas. Protect from moisture.*
P241	*Use explosion-proof electrical/ventilating/lighting/equipment.*
P260	*Do not breathe dust/fume/gas/mist/vapours/spray.*
P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P310	*Immediately call a POISON CENTER/doctor.*
P321	*Specific treatment (see on this label).*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 7440-66-6 *EINECS: 231-175-3* *Reg.nr.: 01-2119467174-37-xxxx*	*Zink* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410*	*40-50%*

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CAS: 5593-70-4 EINECS: 227-006-8	Butyl Titanat Monomer Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha (petroleum), heavy arom. Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 104-76-7 EINECS: 203-234-3	2-ethylhexan-1-ol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5 - 10%
CAS: 64742-48-9 EINECS: 265-150-3	Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 1070-10-6 EINECS: 213-969-1	2Ethyl Hexyl Titanat Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1 - 5%
CAS: 9022-96-2	Poly- Titantetrabutanolat Flam. Liq. 3, H226; Eye Irrit. 2, H319	1 - 5%
CAS: 2768-02-7 EINECS: 220-449-8	Trimethoxyvinylsilan Flam. Liq. 3, H226; Acute Tox. 4, H332	1 - 5%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45-xxxx	aluminium powder (stabilised) Flam. Sol. 1, H228	1 - 5%
CAS: 64742-47-8 EC number: 919-164-8	Distillates (petroleum), hydrotreated light STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	1 - 5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1 - 5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained respiratory protective device.*

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
· ***6.2 Environmental precautions:*** *Do not allow to enter sewers/ surface or ground water.*
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Use only receptacles specifically permitted for this substance/product.
· ***Information about storage in one common storage facility:***
Do not store together with oxidising and acidic materials.
Do not store together with alkalis (caustic solutions).
· ***Further information about storage conditions:*** *Store in cool, dry conditions in well sealed receptacles.*
· ***7.3 Specific end use(s)*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· ***Additional information about design of technical facilities:*** *No further data; see item 7.*

· ***8.1 Control parameters***
· ***Ingredients with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**		
7440-66-6 Zink		
Dermal	DNEL Derived no Effect Level	83 mg/kg/d (AN)
Inhalative	DNEL Derived no Effect Level	5 mg/m³ (AN)

· **PNECs**	
7440-66-6 Zink	
PNEC Predicted no effect concentration	0.0061 mg/l (Meerwasser) 0.0206 mg/l (Süsswasser)

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· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***8.2 Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
· ***Respiratory protection:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· ***Protection of hands:***
Solvent resistant gloves



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves*** *Nitrile rubber, NBR*
· ***Penetration time of glove material***
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:***



Tightly sealed goggles

· ***Body protection:*** *Protective work clothing*

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Colour:	*Silver-coloured*
· ***Odour:***	*Solvent-like*
· ***Odour threshold:***	*Not determined.*
· ***pH-value:***	*Not determined.*
· ***Change in condition***	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*Undetermined.*
· ***Flash point:***	*23-55 °C (DIN EN ISO 2719)*
· ***Flammability (solid, gaseous):***	*Highly flammable.*
· ***Ignition temperature:***	
Decomposition temperature:	*Not determined.*
· ***Self-igniting:***	*Product is not selfigniting.*

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· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
· ***Explosion limits:***	
Lower:	*0.6 Vol % (Liter. Wert)*
Upper:	*8.5 Vol % (Liter. Wert)*
· ***Vapour pressure at 20 °C:***	*1 hPa (Liter. Wert)*
· ***Density:***	*Not determined.*
· ***Relative density***	*Not determined.*
· ***Vapour density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with water:***	*Hydrolised.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic:	*Not determined.*
· ***9.2 Other information***	*No further relevant information available.*

SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** *No further relevant information available.*
· ***10.2 Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** *No decomposition if used according to specifications.*
· ***10.3 Possibility of hazardous reactions*** *Develops toxic gases/fumes.*
· ***10.4 Conditions to avoid*** *No further relevant information available.*
· ***10.5 Incompatible materials:*** *Water*
· ***10.6 Hazardous decomposition products:*** *Flammable gases/vapours*

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity***
Harmful if inhaled.

· ***LD/LC50 values relevant for classification:***		
7440-66-6 Zink		
Oral	*LD50*	*> 2000 mg/kg (Ratte)*
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	*LD50*	*>6800 mg/kg (Ratte)*
Dermal	*LD50*	*>3400 mg/kg (Kaninchen)*
Inhalative	*LC50/ 4 h*	*>10.2 mg/l (Ratte)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Causes skin irritation.
· ***Serious eye damage/irritation***
Causes serious eye damage.
· ***Respiratory or skin sensitisation*** *Based on available data, the classification criteria are not met.*
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***Germ cell mutagenicity*** *Based on available data, the classification criteria are not met.*

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· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity*** *Based on available data, the classification criteria are not met.*
· ***STOT-single exposure*** *Based on available data, the classification criteria are not met.*
· ***STOT-repeated exposure***
May cause damage to organs through prolonged or repeated exposure.
· ***Aspiration hazard*** *Based on available data, the classification criteria are not met.*

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
7440-66-6 Zink	
EC50	0.136 mg/l (Algen) ((pH<7-8,5; OECD 201))
	0.413 mg/l (Daphnien) ((pH<7; US EPA 821-R-02-012 standard test protocol))

· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Ecotoxical effects:***
· ***Remark:*** *Very toxic for fish*
· ***Additional ecological information:***
· ***General notes:***
Do not allow product to reach ground water, water course or sewage system.
Very toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· ***European waste catalogue***	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other dangerous substances

· ***Uncleaned packaging:***
· ***Recommendation:***
Material that is dried under ambient air conditions - especially dusty material (e.g. residual dust from spray chambers),contains residual solvents and metal dust.
It is therefore combustible with a possible danger of dust explosion.
Precautionary measures until disposal:
Store only in suitable containers in a cool, dry place.
Prevent direct sunlight.
Do not mix with water,alkaline and/or acidic substances as this could produce highly flammable gases.
Also keep well away from substances having a oxidising effect.
Do not use vacuum cleaners when cleaning.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT, ENVIRONMENTALLY HAZARDOUS, special provision 640E
· **IMDG**	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
· **IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: Zink
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Danger code (Kemler):**	39
· **EMS Number:**	F-E,S-E
· **Segregation groups**	Heavy metals and their salts (including their organometallic compounds)
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	D/E

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· ***IMDG***	
· ***Limited quantities (LQ)***	*5L*
· ***Excepted quantities (EQ)***	*Code: E1* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 1000 ml*
· ***UN "Model Regulation":***	*UN 1263 PAINT, special provision 640E, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS*

*
SECTION 15: Regulatory information

· ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***

· ***National regulations:***

· ***Technical instructions (air):***

Class	Share in %
II	1-5
III	34-40

· ***Waterhazard class:*** *Water hazard class 2 (Self-assessment): hazardous for water.*
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H226 Flammable liquid and vapour.
H228 Flammable solid.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· ***Department issuing MSDS:***
Abt. R & D
Abt. R & D
· ***Contact:*** *R & D / Tel. 0049 (0) 2330 63 159*
· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **** Data compared to the previous version altered.***

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.10.2015 *Versionsnummer 05-00* *überarbeitet am: 16.10.2015*

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname: DELTA®-TONE 9000 SILBER**

· **Artikelnummer:** 08400022
· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**
Keine weiteren relevanten Informationen verfügbar.
· **Verwendung des Stoffes / des Gemisches** Beschichtungsstoff

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
· **Hersteller/Lieferant:**
Dörken MKS-Systeme GmbH & Co.KG

Wetterstrasse 58
D-58313 Herdecke

Tel.: (0049) 02330 / 63 - 0
Fax: (0049) 02330 / 63 - 355
E-mail: msds.mks@doerken.de

· **Auskunftgebender Bereich:** CHEMTREC®
· **1.4 Notrufnummer:**
0800-181-7059 (Deutschland)
+(41)-435016715 (Schweiz)

ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**
· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS02 Flamme

Flam. Liq. 3 H226 Flüssigkeit und Dampf entzündbar.
Water-react. 2 H261 In Berührung mit Wasser entstehen entzündbare Gase.



GHS08 Gesundheitsgefahr

STOT RE 2 H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.



GHS05 Ätzwirkung

Eye Dam. 1 H318 Verursacht schwere Augenschäden.



GHS09 Umwelt

Aquatic Acute 1 H400 Sehr giftig für Wasserorganismen.
Aquatic Chronic 1 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.



GHS07

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Acute Tox. 4	H332 Gesundheitsschädlich bei Einatmen.
Skin Irrit. 2	H315 Verursacht Hautreizungen.

· **2.2 Kennzeichnungselemente**
· **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
· **Gefahrenpiktogramme**



GHS02 GHS05 GHS07 GHS08 GHS09

· **Signalwort** Gefahr

· **Gefahrbestimmende Komponenten zur Etikettierung:**
Butyl Titanat Monomer
2-Ethyl-1-hexanol
Trimethoxyvinylsilan
· **Gefahrenhinweise**
H226 Flüssigkeit und Dampf entzündbar.
H261 In Berührung mit Wasser entstehen entzündbare Gase.
H332 Gesundheitsschädlich bei Einatmen.
H315 Verursacht Hautreizungen.
H318 Verursacht schwere Augenschäden.
H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
· **Sicherheitshinweise**

P223	Keinen Kontakt mit Wasser zulassen.
P210	Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.
P231+P232	Unter inertem Gas handhaben. Vor Feuchtigkeit schützen.
P241	Explosionsgeschützte elektrische Geräte/Lüftungsanlagen/Beleuchtungsanlagen verwenden.
P260	Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.
P303+P361+P353	BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.
P305+P351+P338	BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
P310	Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.
P321	Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).
P501	Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen/ internationalen Vorschriften.

· **2.3 Sonstige Gefahren**
· **Ergebnisse der PBT- und vPvB-Beurteilung**
· **PBT:** Nicht anwendbar.
· **vPvB:** Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

· **3.2 Chemische Charakterisierung: Gemische**
· **Beschreibung:** Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

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· **Gefährliche Inhaltsstoffe:**

CAS: 7440-66-6 EINECS: 231-175-3 Indexnummer: 030-002-00-7 Reg.nr.: 01-2119467174-37-xxxx	Zink Aquatic Acute 1, H400; Aquatic Chronic 1, H410	40-50%
CAS: 5593-70-4 EINECS: 227-006-8	Butyl Titanat Monomer Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 64742-94-5 EINECS: 265-198-5 Indexnummer: 649-424-00-3	Lösungsmittelnaphtha (Erdöl), schwere aromatische Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 104-76-7 EINECS: 203-234-3	2-Ethyl-1-hexanol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5 - 10%
CAS: 64742-48-9 EINECS: 265-150-3	Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 1070-10-6 EINECS: 213-969-1	2Ethyl Hexyl Titanat Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1 - 5%
CAS: 9022-96-2	Poly- Titantetrabutanolat Flam. Liq. 3, H226; Eye Irrit. 2, H319	1 - 5%
CAS: 2768-02-7 EINECS: 220-449-8	Trimethoxyvinylsilan Flam. Liq. 3, H226; Acute Tox. 4, H332	1 - 5%
CAS: 7429-90-5 EINECS: 231-072-3 Indexnummer: 013-002-00-1 Reg.nr.: 01-2119529243-45-xxxx	Aluminiumpulver (stabilisiert) Flam. Sol. 1, H228	1 - 5%
CAS: 64742-47-8 EG-Nummer: 919-164-8 Indexnummer: 649-422-00-2	Destillate (Erdöl), mit Wasserstoff behandelte leichte STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	1 - 5%
CAS: 64742-95-6 EINECS: 265-199-0 Indexnummer: 649-356-00-4	Lösungsmittelnaphtha (Erdöl), leichte aromatische Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1 - 5%

· **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

· **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
· **Nach Einatmen:**
Bei Bewußtlosigkeit Lagerung und Transport in stabiler Seitenlage.
Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.
· **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
· **Nach Augenkontakt:**
Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
· **Nach Verschlucken:** Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
· **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
Keine weiteren relevanten Informationen verfügbar.
· **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
Keine weiteren relevanten Informationen verfügbar.

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ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

· **5.1 Löschmittel**
· **Geeignete Löschmittel:** CO2, Sand, Löschpulver. Kein Wasser verwenden.
· **Aus Sicherheitsgründen ungeeignete Löschmittel:** Wasser im Vollstrahl
· **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
Keine weiteren relevanten Informationen verfügbar.
· **5.3 Hinweise für die Brandbekämpfung**
· **Besondere Schutzausrüstung:** Umgebungsluftunabhängiges Atemschutzgerät tragen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

· **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
Für ausreichende Lüftung sorgen.
· **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
· **6.3 Methoden und Material für Rückhaltung und Reinigung:**
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.
Für ausreichende Lüftung sorgen.
Nicht mit Wasser oder wäßrigen Reinigungsmitteln wegspülen.
· **6.4 Verweis auf andere Abschnitte**
Informationen zur sicheren Handhabung siehe Abschnitt 7.
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

· **7.1 Schutzmaßnahmen zur sicheren Handhabung**
In gut verschlossenen Gebinden kühl und trocken lagern.
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
· **Hinweise zum Brand- und Explosionsschutz:**
Zündquellen fernhalten - nicht rauchen.
Maßnahmen gegen elektrostatische Aufladung treffen.

· **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
· **Lagerung:**
· **Anforderung an Lagerräume und Behälter:**
Nur Behälter verwenden, die speziell für den Stoff/das Produkt zugelassen sind.
· **Zusammenlagerungshinweise:**
Nicht zusammen mit oxidierenden und sauren Stoffen lagern.
Nicht zusammen mit Alkalien (Laugen) lagern.
· **Weitere Angaben zu den Lagerbedingungen:** In gut verschlossenen Gebinden kühl und trocken lagern.
· **Lagerklasse (VCI):** 4.3
· **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** Leichtentzündlich
· **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

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ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

· **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

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· **8.1 Zu überwachende Parameter**

· **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**	
64742-94-5 Lösungsmittelnaphtha (Erdöl), schwere aromatische	
MAK	Langzeitwert: 200 mg/m³
104-76-7 2-Ethyl-1-hexanol	
AGW	Langzeitwert: 54 mg/m³, 10 ml/m³ 1(I);Y, 11, DFG
64742-48-9 Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5%	
MAK	Langzeitwert: 300 mg/m³, 50 ml/m³ vgl. Abschn.Xc
64742-47-8 Destillate (Erdöl), mit Wasserstoff behandelte leichte	
MAK	Langzeitwert: 140 mg/m³, 20 ml/m³ vgl.Abschn.Xc
64742-95-6 Lösungsmittelnaphtha (Erdöl), leichte aromatische	
MAK	Langzeitwert: 200 mg/m³

· **DNEL-Werte**		
7440-66-6 Zink		
Dermal	DNEL Derived no Effect Level	83 mg/kg/d (Arbeitnehmer)
Inhalativ	DNEL Derived no Effect Level	5 mg/m³ (Arbeitnehmer)

· **PNEC-Werte**	
7440-66-6 Zink	
PNEC Predicted no effect concentration	0,0061 mg/l (Meerwasser) 0,0206 mg/l (Süsswasser)

· **Zusätzliche Hinweise:** Als Grundlage dienten die bei der Erstellung gültigen Listen.

· **8.2 Begrenzung und Überwachung der Exposition**
· **Persönliche Schutzausrüstung:**
· **Allgemeine Schutz- und Hygienemaßnahmen:**
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
Beschmutzte, getränkte Kleidung sofort ausziehen.
Gase/Dämpfe/Aerosole nicht einatmen.
Berührung mit den Augen und der Haut vermeiden.
· **Atemschutz:**
Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.
· **Handschutz:**
Handschuhe / lösemittelbeständig



Schutzhandschuhe

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.
· **Handschuhmaterial** Nitrilkautschuk
· **Durchdringungszeit des Handschuhmaterials**
Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

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· **Augenschutz:**



Dichtschließende Schutzbrille

· **Körperschutz:** Arbeitsschutzkleidung

ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**	
· **Allgemeine Angaben**	
· **Aussehen:**	
Form:	Flüssig
Farbe:	Silberfarben
· **Geruch:**	Lösemittelartig
· **Geruchsschwelle:**	Nicht bestimmt.
· **pH-Wert:**	Nicht bestimmt.
· **Zustandsänderung**	
Schmelzpunkt/Schmelzbereich:	Nicht bestimmt.
Siedepunkt/Siedebereich:	Nicht bestimmt.
· **Flammpunkt:**	23-55 °C (DIN EN ISO 2719)
· **Entzündlichkeit (fest, gasförmig):**	Leichtentzündlich.
· **Zündtemperatur:**	
Zersetzungstemperatur:	Nicht bestimmt.
· **Selbstentzündlichkeit:**	Das Produkt ist nicht selbstentzündlich.
· **Explosionsgefahr:**	Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.
· **Explosionsgrenzen:**	
Untere:	0,6 Vol % (Liter. Wert)
Obere:	8,5 Vol % (Liter. Wert)
· **Dampfdruck bei 20 °C:**	1 hPa (Liter. Wert)
· **Dichte:**	Nicht bestimmt.
· **Relative Dichte**	Nicht bestimmt.
· **Dampfdichte**	Nicht bestimmt.
· **Verdampfungsgeschwindigkeit**	Nicht bestimmt.
· **Löslichkeit in / Mischbarkeit mit**	
Wasser:	Hydrolisiert.
· **Verteilungskoeffizient (n-Octanol/Wasser):**	Nicht bestimmt.
· **Viskosität:**	
Dynamisch:	Nicht bestimmt.
Kinematisch:	Nicht bestimmt.
· **9.2 Sonstige Angaben**	Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

· **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.

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· **10.2 Chemische Stabilität**
· **Thermische Zersetzung / zu vermeidende Bedingungen:**
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
· **10.3 Möglichkeit gefährlicher Reaktionen** Entwicklung von giftigen Gasen/Dämpfen.
· **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
· **10.5 Unverträgliche Materialien:** Wasser
· **10.6 Gefährliche Zersetzungsprodukte:** Entzündliche Gase/Dämpfe

ABSCHNITT 11: Toxikologische Angaben

· **11.1 Angaben zu toxikologischen Wirkungen**
· **Akute Toxizität**
Gesundheitsschädlich bei Einatmen.

· **Einstufungsrelevante LD/LC50-Werte:**		
7440-66-6 Zink		
Oral	LD50	> 2000 mg/kg (Ratte)
64742-95-6 Lösungsmittelnaphtha (Erdöl), leichte aromatische		
Oral	LD50	>6800 mg/kg (Ratte)
Dermal	LD50	>3400 mg/kg (Kaninchen)
Inhalativ	LC50/ 4 h	>10,2 mg/l (Ratte)

· **Primäre Reizwirkung:**
· **Ätz-/Reizwirkung auf die Haut**
Verursacht Hautreizungen.
· **Schwere Augenschädigung/-reizung**
Verursacht schwere Augenschäden.
· **Sensibilisierung der Atemwege/Haut**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
· **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Kann die Organe schädigen bei längerer oder wiederholter Exposition.
· **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

· **12.1 Toxizität**

· **Aquatische Toxizität:**	
7440-66-6 Zink	
EC50	0,136 mg/l (Algen) ((pH<7-8,5; OECD 201))
	0,413 mg/l (Daphnien) ((pH<7; US EPA 821-R-02-012 standard test protocol))

· **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
· **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
· **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
· **Ökotoxische Wirkungen:**
· **Bemerkung:** Sehr giftig für Fische.
· **Weitere ökologische Hinweise:**
· **Allgemeine Hinweise:**
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.

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sehr giftig für Wasserorganismen
Wassergefährdungsklasse 2 (Selbsteinstufung): wassergefährdend
· **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
· **PBT:** *Nicht anwendbar.*
· **vPvB:** *Nicht anwendbar.*
· **12.6 Andere schädliche Wirkungen** *Keine weiteren relevanten Informationen verfügbar.*

ABSCHNITT 13: Hinweise zur Entsorgung

· **13.1 Verfahren der Abfallbehandlung**
· **Empfehlung:** *Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.*

· **Europäischer Abfallkatalog**	
*08 01 11**	*Farb- und Lackabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten*
*08 01 17**	*Abfälle aus der Farb- oder Lackentfernung, die organische Lösemittel oder andere gefährliche Stoffe enthalten*

· **Ungereinigte Verpackungen:**
· **Empfehlung:**
Unter Umgebungsluftbedingungen getrocknetes,insbesondere staubförmiges Material(z.B.Reststaub aus Spritzkabinen), enthält Restlösungsmittel und Metallstäube.
Es ist daher entzündlich, möglicherweise staubexplosiv.

Vorsichtsmassnahmen bis zur Entsorgung:
Nur in geeigneten Gebinden kühl und trocken lagern.
Sonneneinstrahlung verhindern.
Nicht mit Wasser,alkalischen und/oder sauren Stoffen versetzen, da leicht brennbare Gase entstehen können.
Oxidativ wirkende Stoffe ebenfalls fernhalten.
Beim Reinigen keine Staubsauger verwenden.

ABSCHNITT 14: Angaben zum Transport

· **14.1 UN-Nummer**
· **ADR, IMDG, IATA** *UN1263*

· **14.2 Ordnungsgemäße UN-Versandbezeichnung**
· **ADR** *1263 FARBE, UMWELTGEFÄHRDEND, Sondervorschrift 640E*
· **IMDG** *PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT*
· **IATA** *PAINT*

· **14.3 Transportgefahrenklassen**

· **ADR, IMDG**



· **Klasse** *3 Entzündbare flüssige Stoffe*

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· **Gefahrzettel**	3
· **IATA**	
	
· **Class**	3 Entzündbare flüssige Stoffe
· **Label**	3
· **14.4 Verpackungsgruppe**	
· **ADR, IMDG, IATA**	III
· **14.5 Umweltgefahren:**	Das Produkt enthält umweltgefährdende Stoffe: Zink
· **Marine pollutant:**	Ja Symbol (Fisch und Baum)
· **Besondere Kennzeichnung (ADR):**	Symbol (Fisch und Baum)
· **14.6 Besondere Vorsichtsmaßnahmen für den Verwender**	Achtung: Entzündbare flüssige Stoffe
· **Kemler-Zahl:**	39
· **EMS-Nummer:**	F-E,S-E
· **Segregation groups**	Heavy metals and their salts (including their organometallic compounds)
· **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code**	Nicht anwendbar.
· **Transport/weitere Angaben:**	
· **ADR**	
· **Begrenzte Menge (LQ)**	5L
· **Freigestellte Mengen (EQ)**	Code: E1 Höchste Nettomenge je Innenverpackung: 30 ml Höchste Nettomenge je Außenverpackung: 1000 ml
· **Beförderungskategorie**	3
· **Tunnelbeschränkungscode**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 FARBE, Sondervorschrift 640E, 3, III, (D/E), UMWELTGEFÄHRDEND

*
ABSCHNITT 15: Rechtsvorschriften

· **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**

· **Nationale Vorschriften:**

· **Technische Anleitung Luft:**

Klasse	Anteil in %
NK	10-20

· **Wassergefährdungsklasse:** WGK 2 (Selbsteinstufung): wassergefährdend.

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Sicherheitsdatenblatt
gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.10.2015 *Versionsnummer 05-00* *überarbeitet am: 16.10.2015*

Handelsname: DELTA®-TONE 9000 SILBER

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· ***Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen***
Die Angaben in diesem Sicherheitsblatt entsprechen unserem gegenwärtigen Wissensstand und genügen der nationalen sowie der EG-Gesetzgebung.
Die gegebenen Arbeitsbedingungen des Nutzers entziehen sich jedoch unserer Kenntnis und Kontrolle.
Das Produkt darf ohne schriftliche Genehmigung keinem anderen, als in unserem "Technischen Merkblatt" beschriebenen Verwendungszweck zugeführt werden. Der Nutzer ist für die Einhaltung aller notwendigen gesetzlichen Bestimmungen, wie z.B. BGV D24,BGV D25 etc. verantwortlich.
Mit Erscheinen dieses Sicherheitsdatenblattes verlieren die vorherigen Versionen ihre Gültigkeit.
· ***15.2 Stoffsicherheitsbeurteilung:*** *Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.*

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· ***Relevante Sätze***
H226 Flüssigkeit und Dampf entzündbar.
H228 Entzündbarer Feststoff.
H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.
H315 Verursacht Hautreizungen.
H318 Verursacht schwere Augenschäden.
H319 Verursacht schwere Augenreizung.
H332 Gesundheitsschädlich bei Einatmen.
H335 Kann die Atemwege reizen.
H336 Kann Schläfrigkeit und Benommenheit verursachen.
H372 Schädigt die Organe bei längerer oder wiederholter Exposition.
H400 Sehr giftig für Wasserorganismen.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.
H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

· ***Datenblatt ausstellender Bereich:***
Abt. R & D
Abt. R & D
· ***Ansprechpartner:*** *R & D / Tel. 0049 (0) 2330 63 159*
· ***Abkürzungen und Akronyme:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **** Daten gegenüber der Vorversion geändert***

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name: DELTA®-TONE 9000 SILBER**

· **Article number:** 08400022
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Coating material

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Dörken MKS-Systeme GmbH & Co.KG

Wetterstrasse 58
D-58313 Herdecke

Tel.: (0049) 02330 / 63 - 0
Fax: (0049) 02330 / 63 - 355
E-mail: msds.mks@doerken.de

· **Further information obtainable from:** CHEMTREC®
· **1.4 Emergency telephone number:**
+(44)-870-8200418 (UK)
000-800-100-7141 (India)
+1 703-527--3887 (International)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.
Water-react. 2 H261 In contact with water releases flammable gases.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

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Skin Irrit. 2 H315 Causes skin irritation.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***



GHS02 GHS05 GHS07 GHS08 GHS09

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Butyl Titanat Monomer
2-ethylhexan-1-ol
Trimethoxyvinylsilan
· ***Hazard statements***
H226 Flammable liquid and vapour.
H261 In contact with water releases flammable gases.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
· ***Precautionary statements***

P223	*Do not allow contact with water.*
P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P231+P232	*Handle under inert gas. Protect from moisture.*
P241	*Use explosion-proof electrical/ventilating/lighting/equipment.*
P260	*Do not breathe dust/fume/gas/mist/vapours/spray.*
P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P310	*Immediately call a POISON CENTER/doctor.*
P321	*Specific treatment (see on this label).*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 7440-66-6 *EINECS: 231-175-3* *Reg.nr.: 01-2119467174-37-xxxx*	*Zink* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410*	*40-50%*

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CAS: 5593-70-4 EINECS: 227-006-8	Butyl Titanat Monomer Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha (petroleum), heavy arom. Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 104-76-7 EINECS: 203-234-3	2-ethylhexan-1-ol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5 - 10%
CAS: 64742-48-9 EINECS: 265-150-3	Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 1070-10-6 EINECS: 213-969-1	2Ethyl Hexyl Titanat Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1 - 5%
CAS: 9022-96-2	Poly- Titantetrabutanolat Flam. Liq. 3, H226; Eye Irrit. 2, H319	1 - 5%
CAS: 2768-02-7 EINECS: 220-449-8	Trimethoxyvinylsilan Flam. Liq. 3, H226; Acute Tox. 4, H332	1 - 5%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45-xxxx	aluminium powder (stabilised) Flam. Sol. 1, H228	1 - 5%
CAS: 64742-47-8 EC number: 919-164-8	Distillates (petroleum), hydrotreated light STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	1 - 5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1 - 5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained respiratory protective device.*

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
· ***6.2 Environmental precautions:*** *Do not allow to enter sewers/ surface or ground water.*
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Use only receptacles specifically permitted for this substance/product.
· ***Information about storage in one common storage facility:***
Do not store together with oxidising and acidic materials.
Do not store together with alkalis (caustic solutions).
· ***Further information about storage conditions:*** *Store in cool, dry conditions in well sealed receptacles.*
· ***7.3 Specific end use(s)*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· ***Additional information about design of technical facilities:*** *No further data; see item 7.*

· ***8.1 Control parameters***
· ***Ingredients with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**		
7440-66-6 Zink		
Dermal	DNEL Derived no Effect Level	83 mg/kg/d (AN)
Inhalative	DNEL Derived no Effect Level	5 mg/m³ (AN)

· **PNECs**	
7440-66-6 Zink	
PNEC Predicted no effect concentration	0.0061 mg/l (Meerwasser) 0.0206 mg/l (Süsswasser)

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· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***8.2 Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
· ***Respiratory protection:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· ***Protection of hands:***
Solvent resistant gloves



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· ***Material of gloves*** *Nitrile rubber, NBR*
· ***Penetration time of glove material***
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Eye protection:***



Tightly sealed goggles

· ***Body protection:*** *Protective work clothing*

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Colour:	*Silver-coloured*
· ***Odour:***	*Solvent-like*
· ***Odour threshold:***	*Not determined.*
· ***pH-value:***	*Not determined.*
· ***Change in condition***	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*Undetermined.*
· ***Flash point:***	*23-55 °C (DIN EN ISO 2719)*
· ***Flammability (solid, gaseous):***	*Highly flammable.*
· ***Ignition temperature:***	
Decomposition temperature:	*Not determined.*
· ***Self-igniting:***	*Product is not selfigniting.*

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· ***Danger of explosion:***	*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
· ***Explosion limits:***	
Lower:	*0.6 Vol % (Liter. Wert)*
Upper:	*8.5 Vol % (Liter. Wert)*
· ***Vapour pressure at 20 °C:***	*1 hPa (Liter. Wert)*
· ***Density:***	*Not determined.*
· ***Relative density***	*Not determined.*
· ***Vapour density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with water:***	*Hydrolised.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
Dynamic:	*Not determined.*
Kinematic:	*Not determined.*
· ***9.2 Other information***	*No further relevant information available.*

SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** *No further relevant information available.*
· ***10.2 Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** *No decomposition if used according to specifications.*
· ***10.3 Possibility of hazardous reactions*** *Develops toxic gases/fumes.*
· ***10.4 Conditions to avoid*** *No further relevant information available.*
· ***10.5 Incompatible materials:*** *Water*
· ***10.6 Hazardous decomposition products:*** *Flammable gases/vapours*

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity***
Harmful if inhaled.

· ***LD/LC50 values relevant for classification:***		
7440-66-6 Zink		
Oral	*LD50*	*> 2000 mg/kg (Ratte)*
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	*LD50*	*>6800 mg/kg (Ratte)*
Dermal	*LD50*	*>3400 mg/kg (Kaninchen)*
Inhalative	*LC50/ 4 h*	*>10.2 mg/l (Ratte)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Causes skin irritation.
· ***Serious eye damage/irritation***
Causes serious eye damage.
· ***Respiratory or skin sensitisation*** *Based on available data, the classification criteria are not met.*
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***Germ cell mutagenicity*** *Based on available data, the classification criteria are not met.*

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· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity*** *Based on available data, the classification criteria are not met.*
· ***STOT-single exposure*** *Based on available data, the classification criteria are not met.*
· ***STOT-repeated exposure***
May cause damage to organs through prolonged or repeated exposure.
· ***Aspiration hazard*** *Based on available data, the classification criteria are not met.*

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
7440-66-6 Zink	
EC50	0.136 mg/l (Algen) ((pH<7-8,5; OECD 201))
	0.413 mg/l (Daphnien) ((pH<7; US EPA 821-R-02-012 standard test protocol))

· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Ecotoxical effects:***
· ***Remark:*** *Very toxic for fish*
· ***Additional ecological information:***
· ***General notes:***
Do not allow product to reach ground water, water course or sewage system.
Very toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· ***European waste catalogue***	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other dangerous substances

· ***Uncleaned packaging:***
· ***Recommendation:***
Material that is dried under ambient air conditions - especially dusty material (e.g. residual dust from spray chambers),contains residual solvents and metal dust.
It is therefore combustible with a possible danger of dust explosion.
Precautionary measures until disposal:
Store only in suitable containers in a cool, dry place.
Prevent direct sunlight.
Do not mix with water,alkaline and/or acidic substances as this could produce highly flammable gases.
Also keep well away from substances having a oxidising effect.
Do not use vacuum cleaners when cleaning.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT, ENVIRONMENTALLY HAZARDOUS, special provision 640E
· **IMDG**	PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
· **IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: Zink
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Danger code (Kemler):**	39
· **EMS Number:**	F-E,S-E
· **Segregation groups**	Heavy metals and their salts (including their organometallic compounds)
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	D/E

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· ***IMDG***	
· ***Limited quantities (LQ)***	*5L*
· ***Excepted quantities (EQ)***	*Code: E1* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 1000 ml*
· ***UN "Model Regulation":***	*UN 1263 PAINT, special provision 640E, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS*

*
SECTION 15: Regulatory information

· ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***

· ***National regulations:***

· ***Technical instructions (air):***

Class	Share in %
II	1-5
III	34-40

· ***Waterhazard class:*** *Water hazard class 2 (Self-assessment): hazardous for water.*
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H226 Flammable liquid and vapour.
H228 Flammable solid.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· ***Department issuing MSDS:***
Abt. R & D
Abt. R & D
· ***Contact:*** *R & D / Tel. 0049 (0) 2330 63 159*
· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **** Data compared to the previous version altered.***

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ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname: DELTA®-TONE 9000 SILBER**

· **Artikelnummer:** 08400022
· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**
Keine weiteren relevanten Informationen verfügbar.
· **Verwendung des Stoffes / des Gemisches** Beschichtungsstoff

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
· **Hersteller/Lieferant:**
Dörken MKS-Systeme GmbH & Co.KG

Wetterstrasse 58
D-58313 Herdecke

Tel.: (0049) 02330 / 63 - 0
Fax: (0049) 02330 / 63 - 355
E-mail: msds.mks@doerken.de

· **Auskunftgebender Bereich:** CHEMTREC®
· **1.4 Notrufnummer:**
0800-181-7059 (Deutschland)
+(41)-435016715 (Schweiz)

ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**
· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS02 Flamme

Flam. Liq. 3 H226 Flüssigkeit und Dampf entzündbar.
Water-react. 2 H261 In Berührung mit Wasser entstehen entzündbare Gase.



GHS08 Gesundheitsgefahr

STOT RE 2 H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.



GHS05 Ätzwirkung

Eye Dam. 1 H318 Verursacht schwere Augenschäden.



GHS09 Umwelt

Aquatic Acute 1 H400 Sehr giftig für Wasserorganismen.
Aquatic Chronic 1 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.



GHS07

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Acute Tox. 4	H332 Gesundheitsschädlich bei Einatmen.
Skin Irrit. 2	H315 Verursacht Hautreizungen.

· **2.2 Kennzeichnungselemente**
· **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
· **Gefahrenpiktogramme**



GHS02 GHS05 GHS07 GHS08 GHS09

· **Signalwort** Gefahr

· **Gefahrbestimmende Komponenten zur Etikettierung:**
Butyl Titanat Monomer
2-Ethyl-1-hexanol
Trimethoxyvinylsilan
· **Gefahrenhinweise**
H226 Flüssigkeit und Dampf entzündbar.
H261 In Berührung mit Wasser entstehen entzündbare Gase.
H332 Gesundheitsschädlich bei Einatmen.
H315 Verursacht Hautreizungen.
H318 Verursacht schwere Augenschäden.
H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
· **Sicherheitshinweise**

P223	Keinen Kontakt mit Wasser zulassen.
P210	Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.
P231+P232	Unter inertem Gas handhaben. Vor Feuchtigkeit schützen.
P241	Explosionsgeschützte elektrische Geräte/Lüftungsanlagen/Beleuchtungsanlagen verwenden.
P260	Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.
P303+P361+P353	BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.
P305+P351+P338	BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
P310	Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.
P321	Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).
P501	Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen/ internationalen Vorschriften.

· **2.3 Sonstige Gefahren**
· **Ergebnisse der PBT- und vPvB-Beurteilung**
· **PBT:** Nicht anwendbar.
· **vPvB:** Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

· **3.2 Chemische Charakterisierung: Gemische**
· **Beschreibung:** Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

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· **Gefährliche Inhaltsstoffe:**

CAS: 7440-66-6 EINECS: 231-175-3 Indexnummer: 030-002-00-7 Reg.nr.: 01-2119467174-37-xxxx	Zink Aquatic Acute 1, H400; Aquatic Chronic 1, H410	40-50%
CAS: 5593-70-4 EINECS: 227-006-8	Butyl Titanat Monomer Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 64742-94-5 EINECS: 265-198-5 Indexnummer: 649-424-00-3	Lösungsmittelnaphtha (Erdöl), schwere aromatische Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 104-76-7 EINECS: 203-234-3	2-Ethyl-1-hexanol Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5 - 10%
CAS: 64742-48-9 EINECS: 265-150-3	Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5% Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5 - 10%
CAS: 1070-10-6 EINECS: 213-969-1	2Ethyl Hexyl Titanat Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1 - 5%
CAS: 9022-96-2	Poly- Titantetrabutanolat Flam. Liq. 3, H226; Eye Irrit. 2, H319	1 - 5%
CAS: 2768-02-7 EINECS: 220-449-8	Trimethoxyvinylsilan Flam. Liq. 3, H226; Acute Tox. 4, H332	1 - 5%
CAS: 7429-90-5 EINECS: 231-072-3 Indexnummer: 013-002-00-1 Reg.nr.: 01-2119529243-45-xxxx	Aluminiumpulver (stabilisiert) Flam. Sol. 1, H228	1 - 5%
CAS: 64742-47-8 EG-Nummer: 919-164-8 Indexnummer: 649-422-00-2	Destillate (Erdöl), mit Wasserstoff behandelte leichte STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	1 - 5%
CAS: 64742-95-6 EINECS: 265-199-0 Indexnummer: 649-356-00-4	Lösungsmittelnaphtha (Erdöl), leichte aromatische Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1 - 5%

· **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

· **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
· **Nach Einatmen:**
Bei Bewußtlosigkeit Lagerung und Transport in stabiler Seitenlage.
Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.
· **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
· **Nach Augenkontakt:**
Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
· **Nach Verschlucken:** Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
· **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
Keine weiteren relevanten Informationen verfügbar.
· **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
Keine weiteren relevanten Informationen verfügbar.

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ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

· **5.1 Löschmittel**
· **Geeignete Löschmittel:** CO2, Sand, Löschpulver. Kein Wasser verwenden.
· **Aus Sicherheitsgründen ungeeignete Löschmittel:** Wasser im Vollstrahl
· **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
Keine weiteren relevanten Informationen verfügbar.
· **5.3 Hinweise für die Brandbekämpfung**
· **Besondere Schutzausrüstung:** Umgebungsluftunabhängiges Atemschutzgerät tragen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

· **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
Für ausreichende Lüftung sorgen.
· **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
· **6.3 Methoden und Material für Rückhaltung und Reinigung:**
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.
Für ausreichende Lüftung sorgen.
Nicht mit Wasser oder wäßrigen Reinigungsmitteln wegspülen.
· **6.4 Verweis auf andere Abschnitte**
Informationen zur sicheren Handhabung siehe Abschnitt 7.
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

· **7.1 Schutzmaßnahmen zur sicheren Handhabung**
In gut verschlossenen Gebinden kühl und trocken lagern.
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
· **Hinweise zum Brand- und Explosionsschutz:**
Zündquellen fernhalten - nicht rauchen.
Maßnahmen gegen elektrostatische Aufladung treffen.

· **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
· **Lagerung:**
· **Anforderung an Lagerräume und Behälter:**
Nur Behälter verwenden, die speziell für den Stoff/das Produkt zugelassen sind.
· **Zusammenlagerungshinweise:**
Nicht zusammen mit oxidierenden und sauren Stoffen lagern.
Nicht zusammen mit Alkalien (Laugen) lagern.
· **Weitere Angaben zu den Lagerbedingungen:** In gut verschlossenen Gebinden kühl und trocken lagern.
· **Lagerklasse (VCI):** 4.3
· **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** Leichtentzündlich
· **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

*

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

· **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

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· **8.1 Zu überwachende Parameter**

· **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**	
64742-94-5 Lösungsmittelnaphtha (Erdöl), schwere aromatische	
MAK	Langzeitwert: 200 mg/m³
104-76-7 2-Ethyl-1-hexanol	
AGW	Langzeitwert: 54 mg/m³, 10 ml/m³ 1(I);Y, 11, DFG
64742-48-9 Gemisch aliphatischer, naphtenischer Kohlenwasserstoffe; Aromatengehalt: <0,5%	
MAK	Langzeitwert: 300 mg/m³, 50 ml/m³ vgl. Abschn.Xc
64742-47-8 Destillate (Erdöl), mit Wasserstoff behandelte leichte	
MAK	Langzeitwert: 140 mg/m³, 20 ml/m³ vgl.Abschn.Xc
64742-95-6 Lösungsmittelnaphtha (Erdöl), leichte aromatische	
MAK	Langzeitwert: 200 mg/m³

· **DNEL-Werte**		
7440-66-6 Zink		
Dermal	DNEL Derived no Effect Level	83 mg/kg/d (Arbeitnehmer)
Inhalativ	DNEL Derived no Effect Level	5 mg/m³ (Arbeitnehmer)

· **PNEC-Werte**	
7440-66-6 Zink	
PNEC Predicted no effect concentration	0,0061 mg/l (Meerwasser) 0,0206 mg/l (Süsswasser)

· **Zusätzliche Hinweise:** Als Grundlage dienten die bei der Erstellung gültigen Listen.

· **8.2 Begrenzung und Überwachung der Exposition**
· **Persönliche Schutzausrüstung:**
· **Allgemeine Schutz- und Hygienemaßnahmen:**
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
Beschmutzte, getränkte Kleidung sofort ausziehen.
Gase/Dämpfe/Aerosole nicht einatmen.
Berührung mit den Augen und der Haut vermeiden.
· **Atemschutz:**
Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.
· **Handschutz:**
Handschuhe / lösemittelbeständig



Schutzhandschuhe

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.
· **Handschuhmaterial** Nitrilkautschuk
· **Durchdringungszeit des Handschuhmaterials**
Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

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· **Augenschutz:**



Dichtschließende Schutzbrille

· **Körperschutz:** Arbeitsschutzkleidung

ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**	
· **Allgemeine Angaben**	
· **Aussehen:**	
Form:	Flüssig
Farbe:	Silberfarben
· **Geruch:**	Lösemittelartig
· **Geruchsschwelle:**	Nicht bestimmt.
· **pH-Wert:**	Nicht bestimmt.
· **Zustandsänderung**	
Schmelzpunkt/Schmelzbereich:	Nicht bestimmt.
Siedepunkt/Siedebereich:	Nicht bestimmt.
· **Flammpunkt:**	23-55 °C (DIN EN ISO 2719)
· **Entzündlichkeit (fest, gasförmig):**	Leichtentzündlich.
· **Zündtemperatur:**	
Zersetzungstemperatur:	Nicht bestimmt.
· **Selbstentzündlichkeit:**	Das Produkt ist nicht selbstentzündlich.
· **Explosionsgefahr:**	Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.
· **Explosionsgrenzen:**	
Untere:	0,6 Vol % (Liter. Wert)
Obere:	8,5 Vol % (Liter. Wert)
· **Dampfdruck bei 20 °C:**	1 hPa (Liter. Wert)
· **Dichte:**	Nicht bestimmt.
· **Relative Dichte**	Nicht bestimmt.
· **Dampfdichte**	Nicht bestimmt.
· **Verdampfungsgeschwindigkeit**	Nicht bestimmt.
· **Löslichkeit in / Mischbarkeit mit**	
Wasser:	Hydrolisiert.
· **Verteilungskoeffizient (n-Octanol/Wasser):**	Nicht bestimmt.
· **Viskosität:**	
Dynamisch:	Nicht bestimmt.
Kinematisch:	Nicht bestimmt.
· **9.2 Sonstige Angaben**	Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

· **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.

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· **10.2 Chemische Stabilität**
· **Thermische Zersetzung / zu vermeidende Bedingungen:**
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
· **10.3 Möglichkeit gefährlicher Reaktionen** Entwicklung von giftigen Gasen/Dämpfen.
· **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
· **10.5 Unverträgliche Materialien:** Wasser
· **10.6 Gefährliche Zersetzungsprodukte:** Entzündliche Gase/Dämpfe

ABSCHNITT 11: Toxikologische Angaben

· **11.1 Angaben zu toxikologischen Wirkungen**
· **Akute Toxizität**
Gesundheitsschädlich bei Einatmen.

· **Einstufungsrelevante LD/LC50-Werte:**		
7440-66-6 Zink		
Oral	LD50	> 2000 mg/kg (Ratte)
64742-95-6 Lösungsmittelnaphtha (Erdöl), leichte aromatische		
Oral	LD50	>6800 mg/kg (Ratte)
Dermal	LD50	>3400 mg/kg (Kaninchen)
Inhalativ	LC50/ 4 h	>10,2 mg/l (Ratte)

· **Primäre Reizwirkung:**
· **Ätz-/Reizwirkung auf die Haut**
Verursacht Hautreizungen.
· **Schwere Augenschädigung/-reizung**
Verursacht schwere Augenschäden.
· **Sensibilisierung der Atemwege/Haut**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
· **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
· **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Kann die Organe schädigen bei längerer oder wiederholter Exposition.
· **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

· **12.1 Toxizität**

· **Aquatische Toxizität:**	
7440-66-6 Zink	
EC50	0,136 mg/l (Algen) ((pH<7-8,5; OECD 201))
	0,413 mg/l (Daphnien) ((pH<7; US EPA 821-R-02-012 standard test protocol))

· **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
· **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
· **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
· **Ökotoxische Wirkungen:**
· **Bemerkung:** Sehr giftig für Fische.
· **Weitere ökologische Hinweise:**
· **Allgemeine Hinweise:**
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.

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sehr giftig für Wasserorganismen
Wassergefährdungsklasse 2 (Selbsteinstufung): wassergefährdend
· **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
· **PBT:** *Nicht anwendbar.*
· **vPvB:** *Nicht anwendbar.*
· **12.6 Andere schädliche Wirkungen** *Keine weiteren relevanten Informationen verfügbar.*

ABSCHNITT 13: Hinweise zur Entsorgung

· **13.1 Verfahren der Abfallbehandlung**
· **Empfehlung:** *Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.*

· **Europäischer Abfallkatalog**	
*08 01 11**	*Farb- und Lackabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten*
*08 01 17**	*Abfälle aus der Farb- oder Lackentfernung, die organische Lösemittel oder andere gefährliche Stoffe enthalten*

· **Ungereinigte Verpackungen:**
· **Empfehlung:**
Unter Umgebungsluftbedingungen getrocknetes,insbesondere staubförmiges Material(z.B.Reststaub aus Spritzkabinen), enthält Restlösungsmittel und Metallstäube.
Es ist daher entzündlich, möglicherweise staubexplosiv.

Vorsichtsmassnahmen bis zur Entsorgung:
Nur in geeigneten Gebinden kühl und trocken lagern.
Sonneneinstrahlung verhindern.
Nicht mit Wasser,alkalischen und/oder sauren Stoffen versetzen, da leicht brennbare Gase entstehen können.
Oxidativ wirkende Stoffe ebenfalls fernhalten.
Beim Reinigen keine Staubsauger verwenden.

ABSCHNITT 14: Angaben zum Transport

· **14.1 UN-Nummer**
· **ADR, IMDG, IATA** *UN1263*

· **14.2 Ordnungsgemäße UN-Versandbezeichnung**
· **ADR** *1263 FARBE, UMWELTGEFÄHRDEND, Sondervorschrift 640E*
· **IMDG** *PAINT (Zink, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT*
· **IATA** *PAINT*

· **14.3 Transportgefahrenklassen**

· **ADR, IMDG**



· **Klasse** *3 Entzündbare flüssige Stoffe*

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· **Gefahrzettel**	3
· **IATA**	
	
· **Class**	3 Entzündbare flüssige Stoffe
· **Label**	3
· **14.4 Verpackungsgruppe**	
· **ADR, IMDG, IATA**	III
· **14.5 Umweltgefahren:**	Das Produkt enthält umweltgefährdende Stoffe: Zink
· **Marine pollutant:**	Ja Symbol (Fisch und Baum)
· **Besondere Kennzeichnung (ADR):**	Symbol (Fisch und Baum)
· **14.6 Besondere Vorsichtsmaßnahmen für den Verwender**	Achtung: Entzündbare flüssige Stoffe
· **Kemler-Zahl:**	39
· **EMS-Nummer:**	F-E,S-E
· **Segregation groups**	Heavy metals and their salts (including their organometallic compounds)
· **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code**	Nicht anwendbar.
· **Transport/weitere Angaben:**	
· **ADR**	
· **Begrenzte Menge (LQ)**	5L
· **Freigestellte Mengen (EQ)**	Code: E1 Höchste Nettomenge je Innenverpackung: 30 ml Höchste Nettomenge je Außenverpackung: 1000 ml
· **Beförderungskategorie**	3
· **Tunnelbeschränkungscode**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1263 FARBE, Sondervorschrift 640E, 3, III, (D/E), UMWELTGEFÄHRDEND

*
ABSCHNITT 15: Rechtsvorschriften

· **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**

· **Nationale Vorschriften:**

· **Technische Anleitung Luft:**

Klasse	Anteil in %
NK	10-20

· **Wassergefährdungsklasse:** WGK 2 (Selbsteinstufung): wassergefährdend.

(Fortsetzung auf Seite 10)

Sicherheitsdatenblatt
gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.10.2015 *Versionsnummer 05-00* *überarbeitet am: 16.10.2015*

Handelsname: DELTA®-TONE 9000 SILBER

(Fortsetzung von Seite 9)

· ***Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen***
Die Angaben in diesem Sicherheitsblatt entsprechen unserem gegenwärtigen Wissensstand und genügen der nationalen sowie der EG-Gesetzgebung.
Die gegebenen Arbeitsbedingungen des Nutzers entziehen sich jedoch unserer Kenntnis und Kontrolle.
Das Produkt darf ohne schriftliche Genehmigung keinem anderen, als in unserem "Technischen Merkblatt" beschriebenen Verwendungszweck zugeführt werden. Der Nutzer ist für die Einhaltung aller notwendigen gesetzlichen Bestimmungen, wie z.B. BGV D24,BGV D25 etc. verantwortlich.
Mit Erscheinen dieses Sicherheitsdatenblattes verlieren die vorherigen Versionen ihre Gültigkeit.
· ***15.2 Stoffsicherheitsbeurteilung:*** *Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.*

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· ***Relevante Sätze***
H226 Flüssigkeit und Dampf entzündbar.
H228 Entzündbarer Feststoff.
H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.
H315 Verursacht Hautreizungen.
H318 Verursacht schwere Augenschäden.
H319 Verursacht schwere Augenreizung.
H332 Gesundheitsschädlich bei Einatmen.
H335 Kann die Atemwege reizen.
H336 Kann Schläfrigkeit und Benommenheit verursachen.
H372 Schädigt die Organe bei längerer oder wiederholter Exposition.
H400 Sehr giftig für Wasserorganismen.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.
H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

· ***Datenblatt ausstellender Bereich:***
Abt. R & D
Abt. R & D
· ***Ansprechpartner:*** *R & D / Tel. 0049 (0) 2330 63 159*
· ***Abkürzungen und Akronyme:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

(Fortsetzung auf Seite 11)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.10.2015 *Versionsnummer 05-00* *überarbeitet am: 16.10.2015*

Handelsname: DELTA®-TONE 9000 SILBER

(Fortsetzung von Seite 10)

Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **** Daten gegenüber der Vorversion geändert***

Shipper

LIEBHERR COMPONENTS BIBERACH GMBH
MEMMINGER STR 68
88400 BIBERACH

B/L No.
ALM251260

SACO SHIPPING LINE LTD

Consigned to order of

LIEBHERR MONTERREY S DE RL DE CV
CARRETERA MONTERREY GARCIA
KM 11 COL EL DURAZNO
GARCIA MEXICO RFC LMO090319261
DIANA GONZALEZ
TEL: 0818988700 EXT 601
EMAIL: LMO-LOGISTICS@LIEBHERR.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

Notify Party and address

LIEBHERR MONTERREY S DE RL DE CV
CARRETERA MONTERREY GARCIA
KM 11 COL EL DURAZNO
GARCIA MEXICO RFC LMO090319261
DIANA GONZALEZ
TEL: 0818988700 EXT 601
EMAIL: LMO-LOGISTICS@LIEBHERR.COM

3/12/BRE/525120

Copy

	Place of receipt
	HAMBURG CFS
Ocean vessel	**Port of loading**
TOKYO EXPRESS 006W	HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	HAMBURG	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
LIEBHERR MONTERRE Y S.DE R.L. DE C. V CARRETERA MONTERR EY - GARCIA KM.11 MX-66000 GARCIA, N.L.	11 PACKAGES	WHEEL LOADER PARTS UN1263, CLASS 3		752,300	2,554
STOWED INTO CONTAINER NO.: TCLU1531421			SEAL : WWA010171086		
TOTAL	**11 PACKAGES**			**752,300 KGS**	**2,554 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

HAMBURG 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wollkämmereistraße 1
21107 Hamburg
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

WICKE GMBH + CO. KG
ELBERFELDER STR. 109
45549 SPROCKHOEVEL
GERMANY
TAX-ID: DE125316142

B/L No.
ALM251264

SACO SHIPPING LINE LTD

Consigned to order of

HYSTER-YALE MEXICO, S.A. DE C.V.
INDUSTRIA AUTOMOTRIZ # 3090 CP25900
PARQUE INDUSTRIAL RAMOS ARIZPE,
MEXICO
TAX ID:NME-971014-GNA

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525121

Notify Party and address

GRUPO CARGOQUIN SA DE CV
RODOLFO VALENCIA PRIETO
PATENTE: 3395
TAX ID: VAPR6111244Y2
LIC. KARLA LOZANO
TEL: (83) 3385 7090
EMAIL: ??????????????????

Copy

Place of receipt

BREMEN CFS

Ocean vessel

TOKYO EXPRESS

Port of loading

HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
HYSTER-YALE MEXICO DELIVERY ADDRESS: ALTAMIRA, TAMPS PORT HYG MEXICO Y/O OSCAR SERAFIN PEREZ COL. UNIDAD NACIONAL TMS 89410 ALTAMIRA MEXICO	6 PALLETS	PARTS FOR ELECTRIC FORK LIFTS HS CODE 84312000		2878,000	3,124

STOWED INTO CONTAINER NO.: TCLU1531421

SEAL : WWA010171086

TOTAL	**6 PALLETS**	**2878,000 KGS**	**3,124 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
b) assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

A Member of WorldWideAlliance

Shipper

KARL GROSS INTERNATIONALE
SPEDITION GMBH
MARTINISTR. 34
D - 28195 BREMEN

B/L No.
ALM251274

SACO SHIPPING LINE LTD

Consigned to order of

DEL CORONA & SCARDIGLI MEXICO SA DE CV,
PATRICIO SANZ 1609, TORRE A, PISO 8, COL
DEL VALLE SUR,
ACALDIA BENITO JUAREZ,
CIUDAD DE MEXICO, MEXICO, 03100.
RFC: CAS070910I3A

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES, LIABILITIES AND DELAYS RESULTING FROM EMERGENCY QUARANTINE FOR WOOD AND WOODEN PACKAGING OR FROM INSUFFICIENT OR IMPROPER LABELLING OF NON_WOODEN PACKAGING ARE FOR CUSTOMER'S ACCOUNT

3/12/BRE/525122

Notify Party and address

SAME AS CONSIGNEE

CONTACT: ANGEL ESPINOZA
EMAIL:OPERACIONES@MX.DCSFREIGHT.COM
PHONE: +52 55 5559 8402

Copy

Place of receipt
SCHWAIGERN

Ocean vessel
TOKYO EXPRESS

Port of loading
HAMBURG

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m^3
KIEFER WERKZEUGBAU GMBH MARKS: GRUPO REYMA DEL SURESTE, S.A. DE C. STOWED INTO CONTAINER NO.: TCLU1531421	4 PACKAGES	SPARE PUNCHES HS CODE: 82073090	SEAL : WWA010171086	408,000	1,631
TOTAL	**4 PACKAGES**			**408,000 KGS**	**1,631 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

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Place and date of issue
BREMEN 01.12.2023

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany

As agent only for SACO SHIPPING LINE LIMITED LIMASSOL

A Member of WorldWideAlliance

Declared Value of the Goods (see clause 12)
US$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay