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

NVOCC Services worldwide

Bremen, 06. May 2026

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.: 260428410208

Leistungsdatum : 03.05.2026

INVOICE-No	INVOICE-Date	CUSTOMER-No	SACO-Ref.	B/L-Ref.	Your VAT-ID	R.O.E
5676280	06.05.2026	020896	6/05/BRE/525500	6/05/BRE/5255		0.8589

Vessel:

Destination:

Online-Ref:

Delivery:

Pieces

Gross KOS

Volumen CBM

SACO REF.: VESSEL: PORT: ETA: CONTAINER:
6/05/BRE/5255 ARGUS VERACRUZ 17.05.2026 FFAU8012187

Pos.	Description	Rate	Amount	Tax
1	AS PER ATTACHED PL SHEET	2042.35 USD	2042.35	

NO VAT ON	VAT ON	TOTAL VAT	VAT	TOTAL AMOUNT USD
2042.35	0	0	19%	2042.35

SACO Shipping GmbH
Wollkämmerstraße 1
21107 Hamburg
Telefon: +49 40 311706-0
Telefax: +49 40 311706-100

Buchhaltung
Telefon: +49 421 52016 315
Telefax: +49 421 52016 317
VAT-ID: DE-118597456
account@saco.de

Volksbank Lüneburger Heide eG
US Dollar Account
BLZ 240 603 00, Kto-Nr. 4 600 360 605
SWIFT-BIC: GENO DE F1 NBU
IBAN DE 19 2406 0300 4600 3606 05

Volksbank Lüneburger Heide eG
Euro Account
BLZ 240 603 00, Kto-Nr. 4 600 360 600
SWIFT-BIC: GENO DE F1 NBU
IBAN DE 57 2406 0300 4600 3606 00

Commerzbank AG
Euro Account
BLZ 200 800 00, Kto-Nr. 6 510 954 00
SWIFT-BIC: DRES DE FF 200
IBAN DE 96 2008 0000 0651 0954 00

Internet: <https://sacoshipping.com> · E-Mail: info@saco.de · Geschäftsführer: Harald Pahl, Andrea Briks, Kevin Pahl, Jannik Pahl, Sönke Briks · Gerichtsstand: Hamburg · Sitz Hamburg · HRB 40128 · Finanzamt: Hamburg-Harburg
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 sacoshipping.com eingesehen werden.

amended on: 20.02.2026 by ECH

Mexico PL-Sheet 2026

valid from March 1st 2026

SACO Ref.: 6/05/BRE/5255 Vessel: ARGUS Port: VERACRUZ ETA: 17.05.2026 Container: FFAU8012187



B/L	COLLECT	incl.Special charges	Doc fee	Unstuffing	Admin Fee	Transm.Fee	Port Transf	On Carriage	0,00 USD	Quote No.:
VER283710										
VER283812										
VER283815										
VER283819										
VER283821										
VER283823										
VER283830	43,00									
VER283848										
VER283869	702,58									
VER283870	43,00									
VER283885	57,75									
VER283932										
	846,33		0,00	0,00	0,00	0,00	0,00		0,00	

COLLECT FREIGHT TOTAL	846,33 USD	846,33 USD	debit to Intert
RELEASE FEE	0,00 USD		
UNSTUFFING	0,00 USD		
ADMIN FEE	0,00 USD		
TRANSMISSION FEE	0,00 USD		
CREDIT FOR ON CARRIAGE	0,00 USD	0,00 USD	credit to Inter
PORT TRANSFER	0,00 USD		
kickback as agreed USD 24,00 w/m from B/L date 01.10.2023 FRT:	49,834	1.196,02 USD	1.196,02 USD debit to Intert
Hartrodt Kickback USD 4,50 w/m FRT:		0,00 USD	0,00 USD debit to Intert
Quick Cargo Kickback USD 3,- w/m FRT:		0,00 USD	
BDP / ED Forwarding Kickback USD 3,- w/m FRT:		0,00 USD	
Linkin / Europartner/XPD Kickback USD 4 w/m FRT:		0,00 USD	
DHL compensation VER canceled 2026 FRT:			0,00 USD credit to Inter
DHL compensation ALM canceled 2026 FRT:			
K&N compensation canceled 2026 FRT:			
Ceva compensation canceled 2026 FRT:		0,00 USD	
TOTAL AMOUNT	2.042,35 USD		CREDIT OR DEBIT TO INTERTAEM

Agreed special PLC :

SHIPPER	Consignee	Doc fee	Unstuffing	Admin	Tranmiss.	Port Transfer
Würth	Knipping/Globaltranz	USD 50,-	USD 28,-w/m			
Hansa Gateway	all	USD 70,-	USD 33,-w/m			

Manifest

Page: 1

Container-No.: FFAU8012187 40' HIGH CUBE CONTAINER Seal-No.: B051657
Vessel: SAC0322 / ARGUS
ETS:
Master-B/L.: ONEYHAMG31110900

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER283710	EZM	4	CASES	STANGEN (STÄBE), PROFILE UND DRAHT AUS TITAN, TITANIUM ALLOY GRADE Ti6AL4V ELI BRIGHT STAINLESS STEEL PROFILE GRADE X2 CRNIMO HS CODE: 81089030, 72224050, 72222031	834.000	1.156
VER283812	DISEÑO Y FABRICACIÓN DECERRAMENTOS SANTIAGO DE QUERETARO MX	2	PACKAGES	ADHESIVES (HYDROCARBONS, C6-C7) 2 FIBREBOARD BOXES (4G) UN 1133 / CLASS 3 / PG II NET WEIGHT: 1,08 KG GROSS WEIGHT: 1,71 KG HS CODE: 35061000	1.707	0.013
VER283815	GÜTERMANN MEXICO REF: 9121106428+9	2	PALLETS	SYNTHETIC SEWING THREAD HS CODE: 500600, 520420, 540110, 540120 **HSCODE: 5006**	349.457	2.102

Manifest

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Container-No.: FFAU8012187 40' HIGH CUBE CONTAINER Seal-No.: B051657
Vessel: SAC0322 / ARGUS
ETS:
Master-B/L.: ONEYHAMG31110900

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER283819	EVONIK INDUSTRIES DE MEXICO P.O. 46503256 DERMOFEEL SENSOLV MB EVONIK ORDER NO. 3012432687 VERACRUZ / MEXICO EVONIK INDUSTRIES DE MEXICO P.O. 46506675 VARISOFT EQ 100 EVONIK ORDER NO. 3012432680 VERACRUZ / MEXICO EVONIK INDUSTRIES DE MEXICO P.O. 46504258 VARISOFT EQ 65 MB EVONIK ORDER NO. 3012432663 VERACRUZ / MEXICO	4	PALLETS	DERMOFEEL SENSOLV MB HS-CODE: 291590 2 DRUM VARISOFT EQ100 HS-CODE: 340241 2 DRUM VARISOFT EQ 65 MB HS-CODE: 382499 30 BAG	1524.720	4.156
VER283821	FUCO 10290 / 1-20 PUEBLA / MEXICO	3	PALLETS	S.T.C. LIBROS Y MATERIAL DIDACTICO HS-CODE: 39261000,49019900,49 85051910,85181000851 90230010,90230080,92 95030021,95030049,95 96100000	492.000	3.984

Manifest

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Container-No.: FFAU8012187 40' HIGH CUBE CONTAINER Seal-No.: B051657
Vessel: SAC0322 / ARGUS
ETS:
Master-B/L.: ONEYHAMG31110900

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER283823	PO 4506982616 PO 4506983974	8	PALLETS	320 PAPERBAGS HEUCODUR YELLOW 255 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE: 28352990,32064970 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 5000 KG MARINE POLLUTANT UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 5160,000 KGS IMO NET WEIGHT : 5000,000 KGS	8256.000	13.874
VER283830	SEG AUTOMOTIVE MEXICO 83242812 83242813	2	PACKAGES	CYLINDER HEAD SCREW, CONNECTOR, CLINCH BOLT, COUNTERSUNK SCREW, HEXAGON HEAD SCREW, HS: 73181558, 73181595, 73181499 INVOICES: 70293851 70293852	750.306	0.807

Manifest

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Container-No.: FFAU8012187 40' HIGH CUBE CONTAINER Seal-No.: B051657
Vessel: SAC0322 / ARGUS
ETS:
Master-B/L.: ONEYHAMG31110900

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER283848	BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32601583	3	PACKAGES	WELDING TORCHES AND SPAREPARTS REF# 32601583 HS-CODES: 391739, 392321, 392690, 400911, 732020, 732690, 820310, 820780, 846630, 847989, 848120, 848340, 851590, 853690	899.000	3.080
VER283869	SEG AUTOMOTVIE MEXICO 00453676 00453677 00453678 00453679 00453680 00453681	18	PALLETS	INTERMEDIATE BEARING, MOTOR BEARING, RING GEAR HS: 84879090 INVOICES: 518537 518538 518539 518540 518541 518542	2134.191	16.339
VER283870	SEG AUTOMOTIVE MEXICO 6557	1	PALLET	FITTING RING HS: 85119000 INVOICE: 594327	77.000	0.523
VER283885	SEG AUTOMOTVIE MEXICO 991626347 991628017	3	PALLETS	SCREWS HS: 73181595 INVOICE NO. R2609353, R2608041	986.550	1.343

Manifest

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Container-No.: FFAU8012187 40' HIGH CUBE CONTAINER Seal-No.: B051657
Vessel: SAC0322 / ARGUS
ETS:
Master-B/L.: ONEYHAMG31110900

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER283932	STARCKE ABRASIVOS MEXICO P0749030 / P0749031 03560 CUIDAD DE MEXICO MEXICO MADE IN GERMANY	2	PALLETS	ABRASIVES HS CODE: 680510, 680520, 680530	800.000	2.457

Total	Quantity 52	Grossweight 17.104.931	Measurement 49.834
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SHIPPER/EXPORTER SACO SHIPPING GMBH AS AGENT OF SACO SHIPPING LINE LTD BGM.-SMIDT-STR.128 D-28195 BREMEN GERMANY / DE118597456		BOOKING NO. HAMG31110900	SEA WAYBILL NO. ONEYHAMG31110900
CONSIGNEE INTERTEAM, S.A. DE C.V. COLIMA 114, INT 201 COLONIA ROMA, C.P. 06700 MEXICO CITY. TEL: +525555149897 CN>		EXPORT REFERENCES(for the Merchant's and/or Carrier's reference only. See back clause 8. (4).) 604BRE5272 LBR 217477	
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. COLIMA 114, INT 201 COLONIA ROMA, C.P. 06700 MEXICO CITY. TEL: +525555149897 NP>		FORWARDING AGENT-REFERENCES FMC NO. 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 identity 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 BREMERHAVEN	FINAL DESTINATION(for the Merchant's reference only) VERACRUZ	
OCEAN VESSEL VOYAGE NO. FLAG ARGUS 236W	PORT OF LOADING BREMERHAVEN	TYPE OF MOVEMENT(IF MIXED, USE DESCRIPTION OF PACKAGES AND GOODS FIELD) FCL / FCL CY / CY	
PORT OF DISCHARGE VERACRUZ	PLACE OF DELIVERY VERACRUZ		

CNTR. NOS. W/SEAL NOS. MARKS & NUMBERS		QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	GROSS MEASUREMENT
FFAU8012187 / B051657				/ 52 PACKAGES /FCL / FCL/40HQ	17104.931KGS/49.834M3	
NO MARKS		4 H PACKAGES		STANGEN (STABE), PROFILE UND DRAHT AUS TITAN, TITANIUM ALLOY GRADE TI6AL4V ELI BRIGHT STAINLESS STEEL PROFILE GRADE X2 CRNIMO HS CODE: 81089030, 72224050, 72222031	834.000KGS	1.156CBM
NO MARKS		2 PACKAGES		ADHESIVES (HYDROCARBONS, C6-C7)	1.707KGS	0.013CBM

*** 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: HAMBURG, HH MEXICO CITY			SERVICE CONTRACT NO. HAM0074N26	DOC FORM NO.	COMMODITY CODE	EXCHANGE RATE	[0] ORIGINAL BILLS(S) HAVE BEEN SIGNED.
CODE	TARIFF ITEM	FREIGHTED AS	RATE	PREPAID	COLLECT		
OCEAN FREIGHT 1	1/40HQ	1400.00	USD	1400.00		EUR/0.858917	
EFS EMERGENCY	1.000	320.00	USD	320.00		EUR/0.858917	
OBS ONE BUNKER	1.000	322.00	USD	322.00		EUR/0.858917	
CVC CNTR SVC	1.000	45.00			USD 45.00	USD/1.000000	DATE CARGO RECEIVED
CDD CARGO	1.000	35.00	USD	35.00		EUR/0.858917	DATE LADEN ON BOARD 03 MAY 2026
DOC DOC FEE	1.000	15.00	EUR	15.00		EUR/1.000000	PLACE OF BILL(S) ISSUE HAMBURG
HAZ HAZ	1.000	150.00	USD	150.00		EUR/0.858917	DATED 03 MAY 2026
PSS PEAK SEASON	1.000	900.00	USD	900.00		EUR/0.858917	
EES EUROPE	1.000	120.00	USD	120.00		EUR/0.858917	
TOTAL			USD	3247.00	USD 45.00	SIGNED OCEAN NETWORK EXPRESS (EUROPE) BY: LTD. GERMANY BRANCH as agent for and on behalf of	
			EUR	15.00			

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

TOTAL PREPAID IN PAYMENT CURRENCY EUR 2803.90 HAMBURG, HH

Thorsten Bratthar



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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
NO MARKS	2 PACKAGES		2 FIBREBOARD BOXES (4G) UN 1133 / CLASS 3 / PG II NET WEIGHT: 1,08 KG GROSS WEIGHT: 1,71 KG HS CODE: 35061000		
NO MARKS	4 PACKAGES		SYNTHETIC SEWING THREAD HS CODE: 500600, 520420, 540110, 540120 **HSCODE: 5006**	349.457KGS	2.102CBM
NO MARKS	4 PACKAGES		DERMOFEEL SENSOLV MB HS-CODE: 291590 2 DRUM VARISOFT EQ100 HS-CODE: 340241 2 DRUM VARISOFT EQ 65 MB HS-CODE: 382499 30 BAG	1524.720KGS	4.156CBM
NO MARKS	3 PACKAGES		S.T.C. LIBROS Y MATERIAL DIDACTICO HS-CODE: 39261000,49019900,491199 00 85051910,8518100085198100, 90179000, 90230010,90230080,92060000 ,92099970, 95030021,95030049,95030095 ,95049080, 96100000	492.000KGS	3.984CBM
NO MARKS	8 PACKAGES		320 PAPERBAGS HEUCODUR YELLOW 255 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE:28352990,32064970 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 5000 KG MARINE POLLUTANT UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 5160,000 KGS IMO NET WEIGHT : 5000,000 KGS	8256.000KGS	13.874CBM
NO MARKS	2 PACKAGES		CYLINDER HEAD SCREW, CONNECTOR, CLINCH BOLT, COUNTERSUNK SCREW, HEXAGON HEAD SCREW, HS: 73181558, 73181595, 73181499 INVOICES: 70293851	750.306KGS	0.807CBM

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

, as agent for and on behalf of

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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
NO MARKS	3 PACKAGES		70293852 WELDING TORCHES AND SPAREPARTS REF# 32601583 HS-CODES: 391739, 392321, 392690, 400911, 732020, 732690, 820310, 820780, 846630, 847989, 848120, 848340, 851590, 853690	899.000KGS	3.080CBM
NO MARKS	18 PACKAGES		INTERMEDIATE BEARING, MOTOR BEARING, RING GEAR HS: 84879090 INVOICES: 518537 518538 518539 518540 518541 518542	2134.191KGS	16.339CBM
NO MARKS	1 PACKAGE		FITTING RING HS: 85119000 INVOICE: 594327	77.000KGS	0.523CBM
NO MARKS	3 PACKAGES		SCREWS HS: 73181595 INVOICE NO. R2609353, R2608041	986.550KGS	1.343CBM
NO MARKS	2 PACKAGES		ABRASIVES HS CODE: 680510, 680520, 680530 CN> TAX ID: INT961206ES7 CTC: MARCELA GODINEZ NP> TAX ID: INT961206ES7 CTC: MARCELA GODINEZ	800.000KGS	2.457CBM

OCEAN FREIGHT PREPAID SHIPPED ON BOARD SHIPPER'S LOAD, STOW AND COUNT					
AS PER MEXICAN CUSTOMS AUTHORITY REGULATION, THE INFORMATION IN THE MASTER BILL OF LADING BL CAN BE AMENDED BEING SUBJECT TO CUSTOMS PENALIZATION TO DECLARE INCORRECT INFORMATION; IF THIS BILL OF LADING IS AMENDED AND ONE OCEAN NETWORK EXPRESS SHIPPING MEXICO SA DE CV OR ANY AGENCY ON THEIR REPRESENTATION IS NOTIFIED ABOUT ANY PENALIZATION, THE SAME WILL BE UNDER SHIPPER OR CONSIGNEE RESPONSIBILITY. 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 CARRIE AND ITS AGENTS AGAINST ANY CONSEQUENCES WHATSOEVER IN RELATION TO SUCH AMENDMENT.					
EXPRESS RELEASE					

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

, as agent for and on behalf of

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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
VER283710 VER283812 VER283815 VER283819 VER283821 VER283823 VER283830 VER283848 VER283869 VER283870 VER283885 VER283932					
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 OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY
BY: BRANCH

, as agent for and on behalf of

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

SHIPPER/EXPORTER SACO SHIPPING GMBH AS AGENT OF SACO SHIPPING LINE LTD BGM.-SMIDT-STR.128 D-28195 BREMEN GERMANY / DE118597456		BOOKING NO. HAMG31110900	SEA WAYBILL NO. ONEYHAMG31110900
CONSIGNEE INTERTEAM, S.A. DE C.V. COLIMA 114, INT 201 COLONIA ROMA, C.P. 06700 MEXICO CITY. TEL: +525555149897 CN>		EXPORT REFERENCES (for the Merchant's and/or Carrier's reference only. See back clause 8. (4).) 604BRE5272 LBR 217477	
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. COLIMA 114, INT 201 COLONIA ROMA, C.P. 06700 MEXICO CITY. TEL: +525555149897 NP>		FORWARDING AGENT-REFERENCES FMC NO. 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 identity 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 OCEAN VESSEL VOYAGE NO. FLAG ARGUS 236W	PLACE OF RECEIPT BREMERHAVEN PORT OF LOADING BREMERHAVEN	FINAL DESTINATION (for the Merchant's reference only) VERACRUZ	
PORT OF DISCHARGE VERACRUZ	PLACE OF DELIVERY VERACRUZ	TYPE OF MOVEMENT (IF MIXED, USE DESCRIPTION OF PACKAGES AND GOODS FIELD) 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
FFAU8012187 / B051657			/ 52 PACKAGES /FCL / FCL/40HQ	17104.931KGS/49.834M3	
NO MARKS	4 H PACKAGES		STANGEN (STABE), PROFILE UND DRAHT AUS TITAN, TITANIUM ALLOY GRADE TI6AL4V ELI BRIGHT STAINLESS STEEL PROFILE GRADE X2 CRNIMO HS CODE: 81089030, 72224050, 72222031	834.000KGS	1.156CBM
NO MARKS	2 PACKAGES		ADHESIVES (HYDROCARBONS, C6-C7)	1.707KGS	0.013CBM

*** 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: HAMBURG, HH MEXICO CITY			SERVICE CONTRACT NO. HAM0074N26	DOC FORM NO.	COMMODITY CODE	EXCHANGE RATE	[0] ORIGINAL BILLS(S) HAVE BEEN SIGNED.
CODE	TARIFF ITEM	FREIGHTED AS	RATE	PREPAID	COLLECT		
						DATE CARGO RECEIVED	
						DATE LADEN ON BOARD	
						PLACE OF BILL(S) ISSUE HAMBURG	
						DATED	
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

DRAFT - NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
NO MARKS	2 PACKAGES		2 FIBREBOARD BOXES (4G) UN 1133 / CLASS 3 / PG II NET WEIGHT: 1,08 KG GROSS WEIGHT: 1,71 KG HS CODE: 35061000		
NO MARKS	4 PACKAGES		SYNTHETIC SEWING THREAD HS CODE: 500600, 520420, 540110, 540120 **HSCODE: 5006**	349.457KGS	2.102CBM
NO MARKS	4 PACKAGES		DERMOFEEL SENSOLV MB HS-CODE: 291590 2 DRUM VARISOFT EQ100 HS-CODE: 340241 2 DRUM VARISOFT EQ 65 MB HS-CODE: 382499 30 BAG	1524.720KGS	4.156CBM
NO MARKS	3 PACKAGES		S.T.C. LIBROS Y MATERIAL DIDACTICO HS-CODE: 39261000,49019900,491199 00 85051910,8518100085198100, 90179000, 90230010,90230080,92060000 ,92099970, 95030021,95030049,95030095 ,95049080, 96100000	492.000KGS	3.984CBM
NO MARKS	8 PACKAGES		320 PAPERBAGS HEUCODUR YELLOW 255 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE:28352990,32064970 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 5000 KG MARINE POLLUTANT UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 5160,000 KGS IMO NET WEIGHT : 5000,000 KGS	8256.000KGS	13.874CBM
NO MARKS	2 PACKAGES		CYLINDER HEAD SCREW, CONNECTOR, CLINCH BOLT, COUNTERSUNK SCREW, HEXAGON HEAD SCREW, HS: 73181558, 73181595, 73181499 INVOICES: 70293851	750.306KGS	0.807CBM

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

, as agent for and on behalf of

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

DRAFT - NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
NO MARKS	3 PACKAGES		70293852 WELDING TORCHES AND SPAREPARTS REF# 32601583 HS-CODES: 391739, 392321, 392690, 400911, 732020, 732690, 820310, 820780, 846630, 847989, 848120, 848340, 851590, 853690	899.000KGS	3.080CBM
NO MARKS	18 PACKAGES		INTERMEDIATE BEARING, MOTOR BEARING, RING GEAR HS: 84879090 INVOICES: 518537 518538 518539 518540 518541 518542	2134.191KGS	16.339CBM
NO MARKS	1 PACKAGE		FITTING RING HS: 85119000 INVOICE: 594327	77.000KGS	0.523CBM
NO MARKS	3 PACKAGES		SCREWS HS: 73181595 INVOICE NO. R2609353, R2608041	986.550KGS	1.343CBM
NO MARKS	2 PACKAGES		ABRASIVES HS CODE: 680510, 680520, 680530 CN> TAX ID: INT961206ES7 CTC: MARCELA GODINEZ NP> TAX ID: INT961206ES7 CTC: MARCELA GODINEZ	800.000KGS	2.457CBM

OCEAN FREIGHT PREPAID SHIPPED ON BOARD SHIPPER'S LOAD, STOW AND COUNT					
AS PER MEXICAN CUSTOMS AUTHORITY REGULATION, THE INFORMATION IN THE MASTER BILL OF LADING BL CAN BE AMENDED BEING SUBJECT TO CUSTOMS PENALIZATION TO DECLARE INCORRECT INFORMATION; IF THIS BILL OF LADING IS AMENDED AND ONE OCEAN NETWORK EXPRESS SHIPPING MEXICO SA DE CV OR ANY AGENCY ON THEIR REPRESENTATION IS NOTIFIED ABOUT ANY PENALIZATION, THE SAME WILL BE UNDER SHIPPER OR CONSIGNEE RESPONSIBILITY. 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 CARRIE AND ITS AGENTS AGAINST ANY CONSEQUENCES WHATSOEVER IN RELATION TO SUCH AMENDMENT.					
EXPRESS RELEASE					

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

, as agent for and on behalf of

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

DRAFT - NON NEGOTIABLE

VESSEL VOYAGE: ARGUS 236W

B/L NO.: ONEYHAMG31110900

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
VER283710 VER283812 VER283815 VER283819 VER283821 VER283823 VER283830 VER283848 VER283869 VER283870 VER283885 VER283932					
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 OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY
BY: BRANCH
as agent for and on behalf of

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

Shipper
EZM GMBH
AUF DER BLEICHE 26
58300 WETTER
DE

B/L No.
VER283710



SACO SHIPPING LINE LTD

Consigned to order of
FIXIER, SA DE CV.
SAN MIGUEL DE ALLENDE KILOMETRO 3.4
CARRETERA DOCTOR MORA,
COMUNIDAD SAN RAFAEL
MX-37967 DOCTOR MORA, GUANAJUATO, G03
MEXICO
TAX ID: FIX10114JU5

Notify Party and address
FIXIER, SA DE CV.

ESPERANZA SUASTE GARCÍA
TEL 419 100 10 98
COMPRAS@FIXIER.COM.MX

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

6/05/BRE/525501

Copy

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. EZM	Quantity of Goods 4 CASES	Description of Goods STANGEN (STÄBE), PROFILE UND DRAHT AUS TITAN, TITANIUM ALLOY GRADE T16AL4V ELI BRIGHT STAINLESS STEEL PROFILE GRADE X2 CRNIMO	Said to contain Gross weight, kg. 834,000 Measurement, m ³ 1,156

HS CODE: 81089030, 72224050,
72222031

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL 4 CASES 834,000 KGS 1,156 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

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.

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

- 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
- 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 03.05.2026

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



Versender:

Systeme für Fassaden, Fenster und Türen
aus Aluminium und Kunststoff - Beschlägefabrik
Schücostraße 23 · 33609 Bielefeld
www.schueco.com

Speditionsübergabeschein

An Spedition
ETS & Scan Global Logistics GmbH
Violenstr. 27
D-28195 BREMEN

Entladestelle:

Diseno y Fabricacion de Cerramientos
S de RI de os S de RI de CV
Parque Industrial Benito Juarez
Acceso II, No 1A, Bodega 2
76120 QRO SANTIAGO DE QUERETARO
MEXIKO

Ansprechpartner Sven Brandt
Telefon: +495217831012
Fax:
E-Mail: sbrandt@schueco.com
Bielefeld 10.04.2026

Seite 1 von 1

Bemerkung:

(Bitte auf Frachtrechnung angeben)

Tour-Nr.: 2000714606
Transport-Nr: 1168184
Lokation: 1000865445
Incoterm:



HU-Nummer	Packmaterial	Warenbezeichnung	Abmessung	Gewicht	Schüco-Lieferschein-Nr.
4301267957	Kundenpaket ZuB Transport	Zubehör für den Baubedarf	24 x 20 x 13	1,066 KG	6021303310
4301267956	Kundenpaket ZuB Transport	Zubehör für den Baubedarf	24 x 20 x 13	0,641 KG	6021378647

Gesamt Colli: 2

Gesamtbrutto: 1,707 KG

Dieser Transport beinhaltet Gefahrgut.
Detaillierte Angaben zu Anzahl und Beschreibung der Versandstücke sind in dem beigegeführten Beförderungsdokument aufgeführt.

Wir erklären mit unserer Unterschrift, dass

- Wir erklären mit unserer Unterschrift, dass
- 1) die Sendung keine verbotenen Gegenstände gemäss der Anlage der Verordnung (EG) Nr. 2320/2002 enthält.
Ausnahme der Güter, die gemäss den gültigen ICAO/IATA-Gefahrgutvorschriften für die Beförderung zulässig sind.
 - 2) Verpackung und Inhalt der Sendung aus Sicherheitsgründen untersucht werden können (z.B. Stichprobenkontrolle, Röntgen, etc).

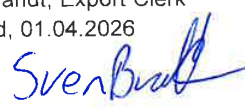
Absender: Schüco International KG Systeme für Fassaden, Fenster und Türen aus Aluminium und Kunststoff - Beschlägefabrik Schücostraße 23 - 33609 Bielefeld WWW.SCHUECO.COM	ADR Beförderungspapier SCHÜCO Tour-Nr: 2000714606 Transport-Nr: 1168184 Seite 1 von 1
Empfänger: Diseno y Fabricacion de Cerramiento S de RI deos S de RI de CV Acceso II, No 1A, Bodega 2 76120 QRO SANTIAGO DE QUERETARO MEXIKO	
Informationen zum beförderten Gefahrgut	
UN 1133, KLEBSTOFFE, 3, II (D/E) 1 KISTE(N), LTD QTY, BRUTTO GEWICHT: 0,64 KG, NETTO GEWICHT: 0,36 KG UN 1133, KLEBSTOFFE, 3, II (D/E) 1 KISTE(N), LTD QTY, BRUTTO GEWICHT: 1,07 KG, NETTO GEWICHT: 0,72 KG	

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 5 Absatz 2 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 5.2 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) <i>Shipper (Name & Address)</i> Schüco International KG Schücostraße 23 33609 Bielefeld Germany		Buchungsnummer(n) <i>Reference number(s)</i> Tour no.: 2000714606 Transport no.: 1168184	
Empfänger <i>Consignee</i> Diseno y Fabricacion de Cerramiento S de RI deos S de RI de CV Acceso II, No 1A, Bodega 2 76120 QRO SANTIAGO DE QUERETARO MEXICO		Beförderer <i>Carrier</i>	
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.: <i>Container-/Vehicle-Nr.:</i> Name/Funktion, Unternehmen/Organisation des Unterzeichners <i>Name/status, company/organization of signatory</i> Ort und Datum <i>Place and date</i> Unterschrift für den Packer <i>Signature on behalf of packer</i>	
Schiffsname und Nummer der Reise <i>Ship's name and voyage No.</i> Ladehafen <i>Port of loading</i>		(Frei für Text, Anweisungen und sonstige Angaben) (Reserved for text, instructions or other matter)	
Löschhafen <i>Port of discharge</i>		Page 1 of 1 Pages Emergency Contact: : +1 872 5888271 (SCO) REACH Registration of Chemicals GmbH	
UN-Nr., Inhalt (richtiger technischer Name), Klasse/Unterklasse nach IMO, Verpackungsgruppe, Markierung der Versandstücke - Falls zutreffend, Identifikations-Nummer oder aml. Kennzeichen, Anzahl und Verp.-Art, Bruttomenge (Volumen/Masse), Nettomenge/Volumen/Masse, Netto Explosivstoffmasse, Merkblatt-Nr. für Unfall-Maßnahmen, Eigenschaften, Flammpunkt, MARINE POLLUTANT, Kontroll- und Notfalltemperatur. UN-No., Proper Shipping Name (Correct technical name), IMO-Class, Packing group, Marks & Nos, if applicable, identification or registration number(s) of the Unit, No. and kind of packages, Gross quantity (volume/mass), Net quantity/volume/mass, Net explosive mass, EmS-No., Properties, Flashpoint, MARINE POLLUTANT, Control- and emergency temperature. UN 1133, ADHESIVES (HYDROCARBONS, C6-C7), 3, II, (-15,0°C c. c.) 2 x metal tube, NET WEIGHT: 0,36 KG, EMS NO.: F-E, S-D 1 FIBREBOARD BOX, LTD. QTY, GROSS WEIGHT: 0,64 KG, NET WEIGHT: 0,36 KG UN 1133, ADHESIVES (HYDROCARBONS, C6-C7), 3, II, (-15,0°C c. c.) 4 x metal tube, NET WEIGHT: 0,72 KG, EMS NO.: F-E, S-D 1 FIBREBOARD BOX, LTD. QTY, GROSS WEIGHT: 1,07 KG, NET WEIGHT: 0,72 KG			
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 <i>Name/status, company/organization of signatory</i> Ort und Datum <i>Place and date</i> Sven Brandt, Export Clerk Bielefeld, 01.04.2026 Unterschrift für den Versender <i>Signature on behalf of shipper</i> 	

D

Seite 1 von 24
 Sicherheitsdatenblatt gemäß Verordnung (EG) Nr. 1907/2006, Anhang II (zuletzt geändert durch Verordnung (EU) 2020/878)
 Überarbeitet am / Version: 05.06.2025 / 0010
 Ersetzt Fassung vom / Version: 04.03.2025 / 0009
 Tritt in Kraft ab: 05.06.2025
 PDF-Druckdatum: 06.06.2025
 EPDM-Klebstoff

Sicherheitsdatenblatt gemäß Verordnung (EG) Nr. 1907/2006, Anhang II (zuletzt geändert durch Verordnung (EU) 2020/878)

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1 Produktidentifikator

EPDM-Klebstoff

Art.: 265310

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen des Stoffs oder Gemischs:

Klebstoff

Verwendungen, von denen abgeraten wird:

Zur Zeit liegen keine Informationen hierzu vor.

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

D

Schüco International KG
 Karolinenstraße 1 – 15
 D-33609 Bielefeld
 Tel.: +49 521 783-0
 Fax: +49 521 783-451
 Email: Sicherheitsdatenblaetter@schueco.com
 Homepage: www.schueco.de

E-Mail-Adresse der sachkundigen Person: kschnurbusch@schueco.com

1.4 Notrufnummer

Notfallinformationsdienste / öffentliche Beratungsstelle:

Notrufnummer der Gesellschaft:

+1 872 5888271 (SCO)

ABSCHNITT 2: Mögliche Gefahren

2.1 Einstufung des Stoffs oder Gemischs

Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP)

Gefahrenklasse	Gefahrenkategorie	Gefahrenhinweis
Flam. Liq.	2	H225-Flüssigkeit und Dampf leicht entzündbar.
Eye Irrit.	2	H319-Verursacht schwere Augenreizung.
Skin Irrit.	2	H315-Verursacht Hautreizungen.
Skin Sens.	1	H317-Kann allergische Hautreaktionen verursachen.

Seite 2 von 24

Sicherheitsdatenblatt gemäß Verordnung (EG) Nr. 1907/2006, Anhang II (zuletzt geändert durch Verordnung (EU) 2020/878)

Überarbeitet am / Version: 05.06.2025 / 0010

Ersetzt Fassung vom / Version: 04.03.2025 / 0009

Tritt in Kraft ab: 05.06.2025

PDF-Druckdatum: 06.06.2025

EPDM-Klebstoff

STOT SE	3	H336-Kann Schläfrigkeit und Benommenheit verursachen.
Aquatic Chronic	2	H411-Giftig für Wasserorganismen, mit langfristiger Wirkung.

2.2 Kennzeichnungselemente

Kennzeichnung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP)



Gefahr

H225-Flüssigkeit und Dampf leicht entzündbar. H319-Verursacht schwere Augenreizung. H315-Verursacht Hautreizungen. H317-Kann allergische Hautreaktionen verursachen. H336-Kann Schläfrigkeit und Benommenheit verursachen. H411-Giftig für Wasserorganismen, mit langfristiger Wirkung.

P210-Von Hitze, heißen Oberflächen, Funken, offenen Flammen sowie anderen Zündquellenarten fernhalten. Nicht rauchen. P261-Einatmen von Dampf oder Aerosol vermeiden. P273-Freisetzung in die Umwelt vermeiden. P280-Schutzhandschuhe und Augen- / Gesichtsschutz tragen.

P312-Bei Unwohlsein GIFTINFORMATIONSZENTRUM / Arzt anrufen.

P403+P233-An einem gut belüfteten Ort aufbewahren. Behälter dicht verschlossen halten.

Ethylacetat

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan

Kohlenwasserstoffe, C9-ungesättigt, polymerisiert

2.3 Sonstige Gefahren

Das Gemisch enthält keinen vPvB-Stoff (vPvB = very persistent, very bioaccumulative) bzw. fällt nicht unter den Anhang XIII der Verordnung (EG) 1907/2006 (< 0,1 %).

Das Gemisch enthält keinen PBT-Stoff (PBT = persistent, bioaccumulative, toxic) bzw. fällt nicht unter den Anhang XIII der Verordnung (EG) 1907/2006 (< 0,1 %).

Das Gemisch enthält keinen Stoff mit endokrinschädlichen Eigenschaften (< 0,1 %).

Gefährliche Dämpfe, schwerer als Luft.

Durch Verteilung in Bodennähe ist eine Rückzündung an entfernten Zündquellen möglich.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

3.1 Stoffe

n.a.

3.2 Gemische

Ethylacetat	Stoff, für den ein EU-Expositionsgrenzwert gilt.
Registrierungsnr. (REACH)	01-2119475103-46-XXXX
Index	607-022-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4

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CAS	141-78-6
% Bereich	20-30
Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP), M-Faktoren	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan	
Registrierungsnr. (REACH)	01-2119475514-35-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	---
% Bereich	10-20
Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP), M-Faktoren	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Kohlenwasserstoffe, C9-ungesättigt, polymerisiert	
Registrierungsnr. (REACH)	01-2119555292-40-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	615-276-3
CAS	71302-83-5
% Bereich	1-2,5
Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP), M-Faktoren	Skin Sens. 1, H317 Aquatic Chronic 3, H412

Bis(isopropyl)naphthalin	
Registrierungsnr. (REACH)	01-2119565150-48-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	254-052-6
CAS	38640-62-9
% Bereich	1-2,5
Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP), M-Faktoren	Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

n-Hexan	Stoff, für den ein EU-Expositionsgrenzwert gilt.
Registrierungsnr. (REACH)	01-2119480412-44-XXXX
Index	601-037-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-777-6
CAS	110-54-3
% Bereich	0,1-<1
Einstufung gemäß der Verordnung (EG) Nr. 1272/2008 (CLP), M-Faktoren	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 1, H372 (Nervensystem) Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Text der H-Sätze und Einstufungs-Kürzel (GHS/CLP) siehe Abschnitt 16.

Die in diesem Abschnitt genannten Stoffe sind mit ihrer tatsächlichen, zutreffenden Einstufung genannt!

Das bedeutet bei Stoffen, welche in Anhang VI Tabelle 3.1 der Verordnung (EG) Nr. 1272/2008 (CLP-Verordnung) gelistet sind, wurden alle evtl. dort genannten Anmerkungen für die hier genannte Einstufung berücksichtigt.

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Die Addition hier aufgeführter höchster Konzentrationen kann eine Klassifizierung ergeben. Nur wenn diese Klassifizierung in Abschnitt 2 aufgeführt ist, trifft sie zu. In allen anderen Fällen liegt die Gesamtkonzentration unterhalb der Einstufung.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

Ersthelfer auf Selbstschutz achten!

Nie einer ohnmächtigen Person etwas durch den Mund einflößen!

Einatmen

Person aus Gefahrenbereich entfernen.

Person Frischluft zuführen und je nach Symptomatik Arzt konsultieren.

Bei Bewußtlosigkeit in stabile Seitenlage bringen und ärztlichen Rat einholen.

Hautkontakt

Produktreste mit weichem, trockenem Tuch vorsichtig abwischen.

Mit viel Wasser und Seife gründlich waschen, verunreinigte, getränkte Kleidungsstücke unverzüglich entfernen, bei Hautreizung (Rötung etc.), Arzt konsultieren.

Augenkontakt

Kontaktlinsen entfernen.

Mit viel Wasser mehrere Min. gründlich spülen, falls nötig, Arzt aufsuchen.

Verschlucken

Mund gründlich mit Wasser spülen.

Kein Erbrechen herbeiführen, sofort Arzt aufsuchen.

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Falls zutreffend sind verzögert auftretende Symptome und Wirkungen in Abschnitt 11. zu finden bzw. bei den Aufnahmewegen unter Abschnitt 4.1.

In bestimmten Fällen kann es vorkommen, dass die Vergiftungssymptome erst nach längerer Zeit/nach mehreren Stunden auftreten.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Symptomatische Behandlung.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

5.1 Löschmittel

Geeignete Löschmittel

CO₂

Löschpulver

Wassersprühstrahl

Alkoholbeständiger Schaum

Ungeeignete Löschmittel

Wasservollstrahl

5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Im Brandfall können sich bilden:

Kohlenoxide

Giftige Gase

Berstgefahr beim Erhitzen

Bildung explosionsgefährlicher/leichtentzündlicher Dampf/Luftgemische möglich.

5.3 Hinweise für die Brandbekämpfung

Persönliche Schutzausrüstung siehe Abschnitt 8.

Explosions- und Brandgase nicht einatmen.

Umluftunabhängiges Atemschutzgerät.

Je nach Brandgröße

Ggf. Vollschutz.

Gefährdete Behälter mit Wasser kühlen.

Kontaminiertes Löschwasser entsprechend den behördlichen Vorschriften entsorgen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

6.1.1 Nicht für Notfälle geschultes Personal

Bei Verschütten oder unbeabsichtigter Freisetzung, zur Verhinderung der Kontamination, persönliche Schutzausrüstung aus Abschnitt 8 tragen.

Ausreichende Belüftung sicherstellen, Zündquellen entfernen.

Bei festen bzw. pulverförmigen Produkten eine Staubentwicklung vermeiden.

Möglichst die Gefahrenzone verlassen, ggf. vorhandene Notfallpläne anwenden.

Ungeschützte Personen fernhalten.

Augen- und Hautkontakt vermeiden.

6.1.2 Einsatzkräfte

Geeignete Schutzausrüstung sowie Materialangaben siehe Abschnitt 8.

6.2 Umweltschutzmaßnahmen

Bei Entweichung größerer Mengen eindämmen.

Undichtigkeit beseitigen, wenn gefahrlos möglich.

Eindringen in das Oberflächen- sowie Grundwasser als auch in den Boden vermeiden.

Nicht in die Kanalisation gelangen lassen.

Bei unfallbedingtem Einleiten in die Kanalisation, zuständige Behörden informieren.

6.3 Methoden und Material für Rückhaltung und Reinigung

Mit flüssigkeitsbindendem Material (z.B. Universalbindemittel, Sand, Kieselgur) aufnehmen und gemäß Abschnitt 13 entsorgen.

Oder:

Produkt aushärten lassen.

Mechanisch aufnehmen und gem. Abschnitt 13 entsorgen.

6.4 Verweis auf andere Abschnitte

Siehe Abschnitt 13. sowie persönliche Schutzausrüstung siehe Abschnitt 8.

ABSCHNITT 7: Handhabung und Lagerung

Zusätzlich zu den in diesem Abschnitt enthaltenen Angaben finden sich auch in Abschnitt 8 und 6.1 relevante Angaben.

7.1 Schutzmaßnahmen zur sicheren Handhabung

7.1.1 Allgemeine Empfehlungen

Für gute Raumlüftung sorgen.

Einatmen der Dämpfe vermeiden.

Ggf. Absaugmaßnahmen am Arbeitsplatz oder an den Verarbeitungsmaschinen erforderlich.

Zündquellen fernhalten - Nicht rauchen.

Maßnahmen gegen elektrostatische Aufladung treffen.

Augen- und Hautkontakt vermeiden.

Essen, Trinken, Rauchen sowie Aufbewahren von Lebensmitteln im Arbeitsraum verboten.

Hinweise auf dem Etikett sowie Gebrauchsanweisung beachten.

Arbeitsverfahren gemäß Betriebsanweisung anwenden.

7.1.2 Hinweise zu allgemeinen Hygienemaßnahmen am Arbeitsplatz

Die allgemeinen Hygienemaßnahmen im Umgang mit Chemikalien sind anzuwenden.

Vor den Pausen und bei Arbeitsende Hände waschen.

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Vor dem Betreten von Bereichen, in denen gegessen wird, kontaminierte Kleidung und Schutzausrüstungen ablegen.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Für Unbefugte unzugänglich aufbewahren.

Produkt nicht in Durchgängen und Treppenaufgängen lagern.

Produkt nur in Originalverpackungen und geschlossen lagern.

Besondere Lagerbedingungen beachten.

Nicht zusammen mit brandfördernden oder selbstentzündlichen Stoffen lagern.

Eindringen in den Boden sicher verhindern.

Vor Sonneneinstrahlung sowie Wärmeeinwirkung schützen.

An gut belüftetem Ort lagern.

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Kühl lagern.
 Trocken lagern.
 Lagerklasse siehe Abschnitt 15.

7.3 Spezifische Endanwendungen

Zur Zeit liegen keine Informationen hierzu vor.

Handlungsanleitung zur guten Arbeitspraxis, sowie Empfehlungen für die Gefährdungsermittlung, beachten.
 Gefahrstoffinformationssysteme, z.B. der Berufsgenossenschaften, der chemischen Industrie oder verschiedene Branchen, je nach Anwendung, heranziehen (Baustoffe, Holz, Chemie, Labor, Leder, Metall).

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

8.1 Zu überwachende Parameter

AGW des Gesamt-Lösemittel-Kohlenwasserstoff Anteils des Gemisches (RCP-Methode gemäß der Deutschen TRGS 900, Nr. 2.9):
 600 mg/m³

Chem. Bezeichnung		Ethylacetat
AGW: 200 ppm (730 mg/m ³) (AGW), 200 ppm (734 mg/m ³) (EU)	Spb.-Üf.: 2(I) (AGW), 400 ppm (1468 mg/m ³) (EU)	---
Überwachungsmethoden:	- Draeger - Ethyl Acetate 200/a (CH 20 201) - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178) - IFA 7322 (Essigsäureester) - 2009 - DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002 - NIOSH 1457 (ETHYL ACETATE) - 1994 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996	
BGW: ---	Sonstige Angaben: DFG, Y (TRGS 900)	
Chem. Bezeichnung		Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan
AGW: 650 mg/m ³	Spb.-Üf.: 2(II)	---
Überwachungsmethoden:	- Compur - KITA-187 S (551 174)	
BGW: ---	Sonstige Angaben: AGS, (AGW gem. RCP-Methode, TRGS 900, 2.9)	
Chem. Bezeichnung		n-Hexan
AGW: 180 mg/m ³ (50 ppm) (AGW), 20 ppm (72 mg/m ³) (EU)	Spb.-Üf.: 8(II)	---
Überwachungsmethoden:	- Draeger - Hexane 10/a (81 03 681) - Compur - KITA-113 SA (549 350) - Compur - KITA-113 SB (549 368) - Compur - KITA-113 SC (503 787) - IFA 7732 (Kohlenwasserstoffe, aliphatisch) - 2011 - EU project - BC/CEN/ENTR/000/2002-16 card 26-3 (2004) - DFG Meth. Nr. 1 (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 1) - 2014, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2014 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische) - 2014 - INSHT MTA/MA-029/A92 (Determination of aliphatic hydrocarbons (n-hexane, n-heptane, n-octane, n-nonane) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 26-1 (2004) - NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996	

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NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR - SPECTROMETRY) - 2016 - OSHA PV2248 (n –Hexane) - 1995		
BGW: 5 mg/l (2,5-Hexandion plus 4,5-Dihydroxy-2-hexanon (nach Hydrolyse)) (Urin, b)		Sonstige Angaben: DFG, Y
D Chem. Bezeichnung Siliciumdioxid		
AGW: 1 mg/m3 E (Kieselsäuren, amorphe)	Spb.-Üf.: 8(II) (Kieselsäuren, amorphe)	---
Überwachungsmethoden:		---
BGW: ---		Sonstige Angaben: AGS, Y (Kieselsäuren, amorphe)

Ethylacetat						
Anwendungsgebiet	Expositionsweg / Umweltkompartiment	Auswirkung auf die Gesundheit	Deskriptor	Wert	Einheit	Bemerkung
	Umwelt - Süßwasser		PNEC	0,24	mg/l	
	Umwelt - Meerwasser		PNEC	0,024	mg/l	
	Umwelt - Wasser, sporadische (intermittierende) Freisetzung		PNEC	1,65	mg/l	
	Umwelt - Sediment, Süßwasser		PNEC	1,15	mg/kg dw	
	Umwelt - Sediment, Meerwasser		PNEC	0,115	mg/kg dw	
	Umwelt - Boden		PNEC	0,148	mg/kg dw	
	Umwelt - Abwasserbehandlungsanlage		PNEC	650	mg/l	
	Umwelt - oral (Futter)		PNEC	200	mg/kg	
Verbraucher	Mensch - oral	Langzeit, systemische Effekte	DNEL	4,5	mg/kg bw/day	
Verbraucher	Mensch - dermal	Langzeit, systemische Effekte	DNEL	37	mg/kg bw/day	
Verbraucher	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	367	mg/m ³	
Verbraucher	Mensch - Inhalation	Langzeit, lokale Effekte	DNEL	367	mg/m ³	
Verbraucher	Mensch - Inhalation	Kurzzeit, systemische Effekte	DNEL	734	mg/m ³	
Verbraucher	Mensch - Inhalation	Kurzzeit, lokale Effekte	DNEL	734	mg/m ³	
Arbeiter / Arbeitnehmer	Mensch - dermal	Langzeit, systemische Effekte	DNEL	63	mg/kg bw/day	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	734	mg/m ³	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Langzeit, lokale Effekte	DNEL	734	mg/m ³	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Kurzzeit, systemische Effekte	DNEL	1468	mg/m ³	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Kurzzeit, lokale Effekte	DNEL	1468	mg/m ³	

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan						
Anwendungsgebiet	Expositionsweg / Umweltkompartiment	Auswirkung auf die Gesundheit	Deskriptor	Wert	Einheit	Bemerkung

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Verbraucher	Mensch - dermal	Langzeit, systemische Effekte	DNEL	699	mg/kg bw/day	
Verbraucher	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	608	mg/m3	
Verbraucher	Mensch - oral	Langzeit, systemische Effekte	DNEL	699	mg/kg bw/day	
Arbeiter / Arbeitnehmer	Mensch - dermal	Langzeit, systemische Effekte	DNEL	773	mg/kg bw/day	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	2035	mg/m3	

n-Hexan						
Anwendungsgebiet	Expositionsweg / Umweltkompartiment	Auswirkung auf die Gesundheit	Deskriptor	Wert	Einheit	Bemerkung
Verbraucher	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	16	mg/m3	
Verbraucher	Mensch - dermal	Langzeit, systemische Effekte	DNEL	5,3	mg/kg bw/day	
Verbraucher	Mensch - oral	Langzeit, systemische Effekte	DNEL	4	mg/kg bw/day	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Langzeit, systemische Effekte	DNEL	75	mg/m3	
Arbeiter / Arbeitnehmer	Mensch - dermal	Langzeit, systemische Effekte	DNEL	11	mg/kg bw/day	

Siliciumdioxid						
Anwendungsgebiet	Expositionsweg / Umweltkompartiment	Auswirkung auf die Gesundheit	Deskriptor	Wert	Einheit	Bemerkung
	Umwelt - oral (Futter)		PNEC	60000	mg/kg feed	
Arbeiter / Arbeitnehmer	Mensch - Inhalation	Langzeit, lokale Effekte	DNEL	4	mg/m3	

D - Deutschland | AGW = Arbeitsplatzgrenzwerte (Technische Regeln für Gefahrstoffe Nr. 900 - TRGS 900): E = Einatembare Fraktion, A = Alveolengängige Fraktion.
 (EU) = Richtlinie 91/322/EWG, 98/24/EG, 2000/39/EG, 2004/37/EG, 2006/15/EG, 2009/161/EU, 2017/164/EU oder 2019/1831/EU.
 (8) = Einatembare Fraktion (2004/37/EG, 2017/164/EU). (9) = Alveolengängige Fraktion (2004/37/EG, 2017/164/EU). (11) = Einatembare Fraktion (2004/37/EG). (12) = Einatembare Fraktion. Alveolengängige Fraktion in den Mitgliedstaaten, die am Tag des Inkrafttretens dieser Richtlinie ein Biomonitoringsystem mit einem biologischen Grenzwert von maximal 0,002 mg Cd/g Creatinin im Urin umsetzen (2004/37/EG).
 ** = Der Grenzwert für diesen Stoff wurde durch die TRGS 900 (Deutschland) vom Januar 2006 aufgehoben mit dem Ziel der Überarbeitung. |
 | Spb.-Üf. = Spitzenbegrenzung - Überschreitungsfaktor (1 bis 8) und Kategorie (I, II) für Kurzzeitwerte (Technische Regeln für Gefahrstoffe Nr. 900 - TRGS 900): "=" = Momentanwert. Kategorie (I) = Stoffe bei denen die lokale Wirkung grenzwertbestimmend ist oder atemwegssensibilisierende Stoffe, (II) = Resorptiv wirksame Stoffe. E = Einatembare Fraktion, A = Alveolengängige Fraktion. (EU) = Richtlinie 91/322/EWG, 98/24/EG, 2000/39/EG, 2004/37/EG, 2006/15/EG, 2009/161/EU, 2017/164/EU oder 2019/1831/EU. (8) = Einatembare Fraktion (2004/37/EG, 2017/164/EU). (9) = Alveolengängige Fraktion (2004/37/EG, 2017/164/EU). (10) = Grenzwert für die Kurzzeitexposition für einen Bezugszeitraum von einer Minute (2017/164/EU).
 ** = Der Grenzwert für diesen Stoff wurde durch die TRGS 900 (Deutschland) vom Januar 2006 aufgehoben mit dem Ziel der Überarbeitung. |
 | BGW = Biologische Grenzwerte (Technische Regeln für Gefahrstoffe Nr. 903 - TRGS 903): Untersuchungsmaterial: B = Vollblut, BE = Erythrozytenfraktion des Vollblutes, P/S = Plasma/Serum, U = Urin.
 Probennahmezeitpunkt: a) keine Beschränkung im Fließgleichgewicht, b) Expositionsende, bzw. Schichtende, c) am Schichtende, bei Langzeitexposition nach mehreren vorangegangenen Schichten, d) vor nachfolgender Schicht, e) nach Expositionsende: Stunden, f) nach mindestens 3 Monaten Exposition, g) unmittelbar nach Exposition, h) am Schichtende, bei Langzeitexposition nach mehreren vorangegangenen Schichten; Bestimmung individueller Vor-Expositionswerte als Bezugswerte, i) am Schichtende am Ende der Arbeitswoche nach mindestens 2-wöchiger Exposition.

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(EU) = Richtlinie 98/24/EG oder 2004/37/EG oder SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Sonstige Angaben (Technische Regeln für Gefahrstoffe Nr. 900 - TRGS 900): H = hautresorptiv. X = krebserzeugender Stoff der Kat. 1A oder 1B oder krebserzeugende Tätigkeit oder Verfahren nach § 2 Absatz 3 Nr. 4 der Gefahrstoffverordnung - es ist zusätzlich § 10 GefStoffV zu beachten. Y = Ein Risiko der Fruchtschädigung braucht bei Einhaltung von AGW u. BGW nicht befürchtet zu werden. Z = Ein Risiko der Fruchtschädigung kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden (s. Nr. 2.7 TRGS 900). Sa = Atemwegssensibilisierend. Sh = Hautsensibilisierend. Sah = Atemwegs- und hautsensibilisierend. DFG = Deutsche Forschungsgemeinschaft (MAK-Kommission). AGS = Ausschuss für Gefahrstoffe. (10) = Der Arbeitsplatzgrenzwert bezieht sich auf den Elementgehalt des entsprechenden Metalls. (11) = Summe aus Dampf und Aerosolen. (TRGS 905) = Verzeichnis krebserzeugender, keimzellmutagener oder reproduktionstoxischer Stoffe (Technische Regeln für Gefahrstoffe Nr. 905): Im Anhang VI Teil 3 der CLP-VO nicht genannte oder vom AGS davon abweichend eingestufte Stoffe mit K = Krebserzeugend, M = Keimzellmutagen, RF = Reproduktionstoxisch - Fruchtbarkeitsgefährdend (kann Fruchtbarkeit beeinträchtigen), RE = Reproduktionstoxisch - Entwicklungsschädigend (Kann das Kind im Mutterleib schädigen), 1A/1B/2 = Kategorien nach Anhang I der CLP-Verordnung.

(TRGS 907) = Verzeichnis sensibilisierender Stoffe und von Tätigkeiten mit sensibilisierenden Stoffen (Technische Regeln für Gefahrstoffe Nr. 907): Sa = Atemwegssensibilisierend. Sh = Hautsensibilisierend. Sah = Atemwegs- und hautsensibilisierend.

(EU) = Richtlinie 91/322/EWG, 98/24/EG, 2000/39/EG, 2004/37/EG, 2006/15/EG, 2009/161/EU, 2017/164/EU, 2019/1831/EU oder 2024/869/EU:

(13) = Der Stoff kann zu einer Sensibilisierung der Haut und der Atemwege führen (Richtlinie 98/24/EG, 2004/37/EG), (14) = Der Stoff kann zu einer Sensibilisierung der Haut führen (Richtlinie 2004/37/EG), (15) = Deutliche Erhöhung der Gesamtbelastung des Körpers durch dermale Exposition möglich.

** = Der Grenzwert für diesen Stoff wurde durch die TRGS 900 (Deutschland) vom Januar 2006 aufgehoben mit dem Ziel der Überarbeitung. |

8.2 Begrenzung und Überwachung der Exposition

8.2.1 Geeignete technische Steuerungseinrichtungen

Für gute Lüftung sorgen. Dies kann durch lokale Absaugung oder allgemeine Abluft erreicht werden.

Falls dies nicht ausreicht, um die Konzentration unter den Arbeitsplatzgrenzwerten (AGW) zu halten, ist ein geeigneter Atemschutz zu tragen.

Gilt nur, wenn hier Expositionsgrenzwerte aufgeführt sind.

Geeignete Beurteilungsmethoden zur Überprüfung der Wirksamkeit der getroffenen Schutzmaßnahmen umfassen messtechnische und nichtmesstechnische Ermittlungsmethoden.

Solche werden beschrieben durch z.B. EN 14042, TRGS 402 (Deutschland).

EN 14042 "Arbeitsplatzatmosphäre. Leitfaden für die Anwendung und den Einsatz von Verfahren und Geräten zur Ermittlung chemischer und biologischer Arbeitsstoffe".

TRGS 402 (Deutschland) "Ermitteln und Beurteilen der Gefährdungen bei Tätigkeiten mit Gefahrstoffen - Inhalative Exposition". Arbeitsmedizinische Regel (AMR) Nr. 6.2 Biomonitoring beachten.

8.2.2 Individuelle Schutzmaßnahmen, zum Beispiel persönliche Schutzausrüstung

Die allgemeinen Hygienemaßnahmen im Umgang mit Chemikalien sind anzuwenden.

Vor den Pausen und bei Arbeitsende Hände waschen.

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Vor dem Betreten von Bereichen, in denen gegessen wird, kontaminierte Kleidung und Schutzausrüstungen ablegen.

Augen-/Gesichtsschutz:

Schutzbrille dichtschießend mit Seitenschildern (EN 166).

Hautschutz - Handschutz:

Chemikalienbeständige Schutzhandschuhe (EN ISO 374).

Empfehlenswert

Barrier (PE/PA/PE) (EN ISO 374)

Permeationszeit (Durchbruchzeit) in Minuten:

480

Bei Kurzzeitkontakt:

Schutzhandschuhe aus Viton® / aus Fluorelastomer (EN ISO 374)

Mindestschichtstärke in mm:

0,7

Permeationszeit (Durchbruchzeit) in Minuten:

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Handschutzcreme empfehlenswert.

Die ermittelten Durchbruchzeiten gemäß EN 16523-1 wurden nicht unter Praxisbedingungen durchgeführt.

Es wird eine maximale Tragezeit, die 50% der Durchbruchzeit entspricht, empfohlen.

Hautschutz - Sonstige Schutzmaßnahmen:

Arbeitsschutzkleidung (z.B. Sicherheitsschuhe EN ISO 20345, langärmelige Arbeitskleidung).

Atemschutz:

Bei Überschreitung des Arbeitsplatzgrenzwertes (AGW, Deutschland) bzw. MAK (Schweiz, Österreich).

Atemschutzmaske Filter A (EN 14387), Kennfarbe braun

Bei hohen Konzentrationen:

Atemschutzgerät (Isoliergerät) (z.B. EN 137 oder EN 138)

Tragezeitbegrenzungen für Atemschutzgeräte beachten.

Thermische Gefahren:

Nicht zutreffend

Zusatzinformation zum Handschutz - Es wurden keine Tests durchgeführt.

Die Auswahl wurde bei Gemischen nach bestem Wissen und über die Informationen der Inhaltsstoffe ausgewählt.

Die Auswahl wurde bei Stoffen von den Angaben der Handschuhhersteller abgeleitet.

Die endgültige Auswahl des Handschuhmaterials muss unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation erfolgen.

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.

Bei Gemischen ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muss deshalb vor dem Einsatz überprüft werden.

Die genaue Durchbruchzeit des Handschuhmaterials ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

8.2.3 Begrenzung und Überwachung der Umweltexposition

Zur Zeit liegen keine Informationen hierzu vor.

ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Aggregatzustand:	Flüssig
Farbe:	Schwarz
Geruch:	Charakteristisch
Schmelzpunkt/Gefrierpunkt:	Es liegen keine Informationen zu diesem Parameter vor.
Siedepunkt oder Siedebeginn und Siedebereich:	77 °C
Entzündbarkeit:	Entzündlich
Untere Explosionsgrenze:	0,6 Vol-%
Obere Explosionsgrenze:	11,5 Vol-%
Flammpunkt:	-15 °C
Zündtemperatur:	>200 °C
Zersetzungstemperatur:	Es liegen keine Informationen zu diesem Parameter vor.
pH-Wert:	Das Gemisch ist nicht löslich (in Wasser).
Kinematische Viskosität:	30000 mPas (20°C, Brookfield, Dynamische Viskosität)
Kinematische Viskosität:	>20,5 mm ² /s (40°C)
Löslichkeit:	teilweise, Löslich
Verteilungskoeffizient n-Oktanol/Wasser (log-Wert):	Gilt nicht für Gemische.
Dampfdruck:	97 hPa (20°C)
Dichte und/oder relative Dichte:	0,92 g/cm ³
Relative Dampfdichte:	Es liegen keine Informationen zu diesem Parameter vor.
Partikeleigenschaften:	Gilt nicht für Flüssigkeiten.

9.2 Sonstige Angaben

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Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff:	Produkt ist nicht explosionsgefährlich. Bildung explosionsgefährlicher/leichtentzündlicher Dampf/Luftgemische möglich.
Oxidierende Flüssigkeiten:	Nein
Lösemittelgehalt:	44,9 % (Organische Lösungsmittel)

ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität

Das Produkt wurde nicht geprüft.

10.2 Chemische Stabilität

Bei sachgerechter Lagerung und Handhabung stabil.

10.3 Möglichkeit gefährlicher Reaktionen

Keine gefährlichen Reaktionen bekannt.

10.4 Zu vermeidende Bedingungen

Erhitzung, offene Flammen, Zündquellen

Elektrostatische Aufladung

10.5 Unverträgliche Materialien

Kontakt mit starken Oxidationsmitteln meiden.

Kontakt mit starken Säuren meiden.

10.6 Gefährliche Zersetzungsprodukte

Keine Zersetzung bei bestimmungsgemäßer Verwendung.

ABSCHNITT 11: Toxikologische Angaben

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Eventuell weitere Informationen über gesundheitliche Auswirkungen siehe Abschnitt 2.1 (Einstufung).

EPDM-Klebstoff						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:						k.D.v.
Akute Toxizität, dermal:						k.D.v.
Akute Toxizität, inhalativ:						k.D.v.
Ätz-/Reizwirkung auf die Haut:						k.D.v.
Schwere Augenschädigung/-reizung:						k.D.v.
Sensibilisierung der Atemwege/Haut:						k.D.v.
Keimzellmutagenität:						k.D.v.
Karzinogenität:						k.D.v.
Reproduktionstoxizität:						k.D.v.
Spezifische Zielorgan-Toxizität - einmalige Exposition (STOT-SE):						k.D.v.
Spezifische Zielorgan-Toxizität - wiederholte Exposition (STOT-RE):						k.D.v.
Aspirationsgefahr:						k.D.v.
Symptome:						k.D.v.

Ethylacetat						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:	LD50	4934	mg/kg	Kaninchen	OECD 401 (Acute Oral Toxicity)	
Akute Toxizität, dermal:	LD50	>20000	mg/kg	Kaninchen		
Akute Toxizität, inhalativ:	LC0	29,3	mg/l/4h	Ratte		Dämpfe

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Ätz-/Reizwirkung auf die Haut:				Kaninchen	OECD 404 (Acute Dermal Irritation/Corrosion)	Nicht reizend, Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.
Schwere Augenschädigung/-reizung:				Kaninchen	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Sensibilisierung der Atemwege/Haut:				Meerschweinchen	OECD 406 (Skin Sensitisation)	Nein (Hautkontakt)
Keimzellmutagenität:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negativ
Keimzellmutagenität:				Säugetier	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negativ, Chinese Hamster
Keimzellmutagenität:				Säugetier	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativ, Chinese Hamster
Karzinogenität:						Negativ
Reproduktionstoxizität:						Negativ
Spezifische Zielorgan-Toxizität - einmalige Exposition (STOT-SE):						STOT SE 3, H336, Kann Schläfrigkeit und Benommenheit verursachen.
Spezifische Zielorgan-Toxizität - wiederholte Exposition (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Ratte	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	, 90-92 days
Spezifische Zielorgan-Toxizität - wiederholte Exposition (STOT-RE), inhalativ:	NOAEL	0,002	mg/kg	Ratte	Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS))	
Aspirationsgefahr:						Nein

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Symptome:						Appetitlosigkeit, Atembeschwerden, Benommenheit, Bewußtlosigkeit , Blutdruckabfall, Hornhauttrübung, Husten, Kopfschmerzen, Magen-Darm-Beschwerden, Rausch, Schläfrigkeit, Schleimhautreizung, Schwindel, Speichelfluss, Übelkeit und Erbrechen, Müdigkeit
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Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:	LD50	>5840	mg/kg	Ratte	OECD 401 (Acute Oral Toxicity)	Analogieschluss
Akute Toxizität, dermal:	LD50	>2920	mg/kg	Kaninchen	OECD 402 (Acute Dermal Toxicity)	Analogieschluss
Akute Toxizität, inhalativ:	LC50	>25,2	mg/l/4h	Ratte	OECD 403 (Acute Inhalation Toxicity)	Dämpfe
Ätz-/Reizwirkung auf die Haut:					OECD 404 (Acute Dermal Irritation/Corrosion)	Reizend
Schwere Augenschädigung/-reizung:					OECD 405 (Acute Eye Irritation/Corrosion)	Leicht reizend (Analogieschluss)
Sensibilisierung der Atemwege/Haut:					OECD 406 (Skin Sensitisation)	Analogieschluss , Nein (Einatmen und Hautkontakt)
Keimzellmutagenität:					OECD 471 (Bacterial Reverse Mutation Test)	Analogieschluss , Negativ
Karzinogenität:						Analogieschluss , Negativ
Reproduktionstoxizität:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogieschluss , Negativ
Spezifische Zielorgan-Toxizität - einmalige Exposition (STOT-SE):						Kann Schläfrigkeit und Benommenheit verursachen.
Spezifische Zielorgan-Toxizität - einmalige Exposition (STOT-SE), inhalativ:						Nicht reizend (Atemwege).

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Spezifische Zielorgan-Toxizität - wiederholte Exposition (STOT-RE):						Negativ
Aspirationsgefahr:						Ja
Symptome:						Benommenheit, Bewußtlosigkeit, Herz-/Kreislaufstörungen, Kopfschmerzen, Krämpfe, Schläfrigkeit, Schleimhautreizung, Schwindel, Übelkeit und Erbrechen

Kohlenwasserstoffe, C9-ungesättigt, polymerisiert						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:	LD50	>2000	mg/kg	Ratte	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Akute Toxizität, dermal:	LD50	>2000	mg/kg	Ratte	OECD 402 (Acute Dermal Toxicity)	
Akute Toxizität, inhalativ:	LC50	>5	mg/l/4h	Ratte	OECD 403 (Acute Inhalation Toxicity)	
Sensibilisierung der Atemwege/Haut:						Ja (Hautkontakt)
Aspirationsgefahr:						Nein

n-Hexan						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:	LD50	16000	mg/kg	Ratte	OECD 401 (Acute Oral Toxicity)	
Akute Toxizität, dermal:	LD50	>2000	mg/kg	Kaninchen		
Akute Toxizität, inhalativ:	LC50	171,6	mg/l/1h	Ratte		
Keimzellmutagenität:				Salmonella typhimurium	(Ames-Test)	Negativ
Aspirationsgefahr:						Ja
Symptome:						Benommenheit, Bewußtlosigkeit, Hautblasen, Hornhauttrübung, Husten, Kopfschmerzen, Krämpfe, Schläfrigkeit, Schleimhautreizung, Schwindel, Tränen der Augen, Übelkeit

Siliciumdioxid						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Akute Toxizität, oral:	LD50	>5000	mg/kg	Ratte	OECD 401 (Acute Oral Toxicity)	Analogieschluss

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Akute Toxizität, dermal:	LD50	>5000	mg/kg	Kaninchen		Literaturangaben
Akute Toxizität, inhalativ:	LC50	>0,139	mg/l/4h	Ratte		Literaturangaben, Maximal erreichbare Konzentration.
Ätz-/Reizwirkung auf die Haut:				Kaninchen	OECD 404 (Acute Dermal Irritation/Corrosion)	Nicht reizend
Schwere Augenschädigung/-reizung:				Kaninchen		Nicht reizend, Mechanische Reizung möglich., Literaturangaben
Sensibilisierung der Atemwege/Haut:				Meerschweinchen	OECD 406 (Skin Sensitisation)	Nicht sensibilisierend
Keimzellmutagenität:					OECD 471 (Bacterial Reverse Mutation Test)	Negativ
Karzinogenität:						Keine Hinweise auf eine derartige Wirkung.
Reproduktionstoxizität (Entwicklungsschädigung):						Keine Hinweise auf eine derartige Wirkung.
Symptome:						Augen, gerötet

11.2. Angaben über sonstige Gefahren

EPDM-Klebstoff						
Toxizität / Wirkung	Endpunkt	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
Endokrinschädliche Eigenschaften:						Gilt nicht für Gemische.
Sonstige Angaben:						Keine sonstigen, einschlägigen Angaben über schädliche Wirkungen auf die Gesundheit vorhanden.

ABSCHNITT 12: Umweltbezogene Angaben

Eventuell weitere Informationen über Umweltauswirkungen siehe Abschnitt 2.1 (Einstufung).

EPDM-Klebstoff							
Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
12.1. Toxizität, Fische:							k.D.v.
12.1. Toxizität, Daphnien:							k.D.v.
12.1. Toxizität, Algen:							k.D.v.
12.2. Persistenz und Abbaubarkeit:							k.D.v.

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12.3. Bioakkumulationspotenzial:							k.D.v.
12.4. Mobilität im Boden:							k.D.v.
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							k.D.v.
12.6. Endokrinschädliche Eigenschaften:							Gilt nicht für Gemische.
12.7. Andere schädliche Wirkungen:							Keine Angaben über andere schädliche Wirkungen für die Umwelt vorhanden.

Ethylacetat							
Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
12.1. Toxizität, Fische:	NOEC/NOEL	32d	<9,65	mg/l	Pimephales promelas		
12.1. Toxizität, Fische:	LC50	96h	230	mg/l	Pimephales promelas		
12.1. Toxizität, Fische:	LC50	48h	333	mg/l	Leuciscus idus		
12.1. Toxizität, Daphnien:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxizität, Daphnien:	NOEC/NOEL	21d	2,4	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxizität, Daphnien:	EC50	48h	165	mg/l			Daphnia cucullata
12.1. Toxizität, Algen:	EC50	48h	5600	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxizität, Algen:	NOEC/NOEL	96h	2000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxizität, Algen:	EC50	96h	>2000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxizität, Algen:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxizität, Algen:	EC50	48h	3300	mg/l	Scenedesmus subspicatus		
12.2. Persistenz und Abbaubarkeit:	BOD	20d	79	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Leicht biologisch abbaubar
12.3. Bioakkumulationspotenzial:	BCF	72h	30				(Fish)

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12.3. Bioakkumulationspotenzial:	Log Kow		0,68			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Eine Bioakkumulation ist nicht zu erwarten (LogPow < 1).25 °C
12.4. Mobilität im Boden:	H (Henry)		0,00012	atm*m3/mol			
12.4. Mobilität im Boden:	Koc		3				
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							Kein PBT-Stoff, Kein vPvB-Stoff
12.6. Endokrinschädliche Eigenschaften:							Negativ
Bakterientoxizität:	EC10	18h	2900	mg/l	Pseudomonas putida	DIN 38412 T.8	
Bakterientoxizität:	EC10	16h	2900	mg/l	Escherichia coli		
Bakterientoxizität:	EC50	15min	5870	mg/l	Photobacterium phosphoreum		

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan

Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
12.1. Toxizität, Fische:	LL50	96h	11,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogieschluss
12.1. Toxizität, Fische:	NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxizität, Daphnien:	EL50	48h	3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogieschluss
12.1. Toxizität, Daphnien:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxizität, Algen:	EL50	72h	30-100	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogieschluss
12.2. Persistenz und Abbaubarkeit:		28d	81	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Analogieschluss, Leicht biologisch abbaubar
12.2. Persistenz und Abbaubarkeit:		28d	98	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Leicht biologisch abbaubar
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							Kein PBT-Stoff, Kein vPvB-Stoff

Kohlenwasserstoffe, C9-ungesättigt, polymerisiert

Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
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12.2. Persistenz und Abbaubarkeit:							Leicht biologisch abbaubar
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							Kein PBT-Stoff, Kein vPvB-Stoff

n-Hexan							
Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
12.1. Toxizität, Fische:	LC50	96h	2,5	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxizität, Daphnien:	EC50	48h	2,1	mg/l	Daphnia magna		Literaturangaben
12.3. Bioakkumulationspotenzial:							Nicht zu erwarten
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							Kein PBT-Stoff, Kein vPvB-Stoff

Siliciumdioxid							
Toxizität / Wirkung	Endpunkt	Zeit	Wert	Einheit	Organismus	Prüfmethode	Bemerkung
12.1. Toxizität, Fische:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxizität, Daphnien:	EC50	24h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxizität, Algen:	EL50	72h	>10000	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistenz und Abbaubarkeit:							Abiotisch abbaubar.
12.3. Bioakkumulationspotenzial:							Nicht zu erwarten
12.4. Mobilität im Boden:							Nicht zu erwarten
12.5. Ergebnisse der PBT- und vPvB-Beurteilung:							Kein PBT-Stoff, Kein vPvB-Stoff

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren zur Abfallbehandlung Für den Stoff / Gemisch / Restmengen

Abfallschlüssel-Nr. EG:

Die genannten Abfallschlüssel sind Empfehlungen aufgrund der voraussichtlichen Verwendung dieses Produktes. Aufgrund der speziellen Verwendung und Entsorgungsgegebenheiten beim Verwender können unter Umständen auch andere Abfallschlüssel zugeordnet werden. (2014/955/EU)

08 04 09 Klebstoff- und Dichtmassenabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten

Empfehlung:

Von der Entsorgung über das Abwasser ist abzuraten.

Örtlich behördliche Vorschriften beachten.

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Zum Beispiel geeignete Verbrennungsanlage.

Ausgehärtetes Produkt:

Zum Beispiel auf geeigneter Deponie ablagern.

Für verunreinigtes Verpackungsmaterial

Örtlich behördliche Vorschriften beachten.

Behälter vollständig entleeren.

Nicht kontaminierte Verpackungen können wiederverwendet werden.

Nicht reinigungsfähige Verpackungen sind wie der Stoff zu entsorgen.

Ungereinigte Behälter nicht durchlöchern, zerschneiden oder schweißen.

Rückstände können eine Explosionsgefahr darstellen.

15 01 10 Verpackungen, die Rückstände gefährlicher Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind

ABSCHNITT 14: Angaben zum Transport

Allgemeine Angaben

Straßen- / Schienentransport (GGVSEB/ADR/RID)

14.1. UN-Nummer oder ID-Nummer:	1133
14.2. Ordnungsgemäße UN-Versandbezeichnung:	
UN 1133 KLEBSTOFFE	
14.3. Transportgefahrenklassen:	3
14.4. Verpackungsgruppe:	II
14.5. Umweltgefahren:	umweltgefährdend
Tunnelbeschränkungscode:	D/E
Klassifizierungscode:	F1
LQ:	5 L
Beförderungskategorie:	2



Beförderung mit Seeschiffen (GGVSee/IMDG-Code)

14.1. UN-Nummer oder ID-Nummer:	1133
14.2. Ordnungsgemäße UN-Versandbezeichnung:	
UN 1133 ADHESIVES	
14.3. Transportgefahrenklassen:	3
14.4. Verpackungsgruppe:	II
14.5. Umweltgefahren:	environmentally hazardous
Meeresschadstoff (Marine Pollutant):	Ja
EmS:	F-E, S-D



Beförderung mit Flugzeugen (IATA)

14.1. UN-Nummer oder ID-Nummer:	1133
14.2. Ordnungsgemäße UN-Versandbezeichnung:	
UN 1133 Adhesives	
14.3. Transportgefahrenklassen:	3
14.4. Verpackungsgruppe:	II
14.5. Umweltgefahren:	Nicht zutreffend



14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Mit der Beförderung gefährlicher Güter beschäftigte Personen müssen unterwiesen sein.

Vorschriften für die Sicherung sind von allen an der Beförderung beteiligten Personen zu beachten.

Vorkehrungen zur Vermeidung von Schadensfällen sind zu treffen.

14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten

Die Fracht erfolgt nicht als Massengut sondern als Stückgut, daher nicht zutreffend.

Mindermengenregelungen werden hier nicht beachtet.

Gefahrennummer sowie Verpackungscodierung auf Anfrage.

Sondervorschriften (special provisions) beachten.

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

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Beschränkungen beachten:

Nationale Verordnungen/Gesetze zum Jugendarbeitsschutz beachten (insb. die nationale Implementierung der Richtlinie 94/33/EG)!
 Verordnung (EG) Nr. 1907/2006, Anhang XVII
 Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cycloalkane, <5% n-Hexan
 Berufsgenossenschaftliche/arbeitsmedizinische Vorschriften beachten.

Richtlinie 2012/18/EU ("Seveso-III"), Anhang I, Teil 1 - Folgende Kategorien treffen für dieses Produkt zu (u.U. sind weitere zu berücksichtigen je nach Lagerung, Handhabung etc.):

Gefahrenkategorien	Anmerkungen zu Anhang I	Mengenschwelle (in Tonnen) für gefährliche Stoffe gemäß Artikel 3 Absatz 10 für die Anwendung von - Anforderungen an Betriebe der unteren Klasse	Mengenschwelle (in Tonnen) für gefährliche Stoffe gemäß Artikel 3 Absatz 10 für die Anwendung von - Anforderungen an Betriebe der oberen Klasse
P5c		5000	50000
E2		200	500

Für die Zuordnung der Kategorien und Mengenschwellen sind immer die Anmerkungen zu Anhang I der Richtlinie 2012/18/EU zu beachten, insb. die in den Tabellen hier genannten und die Anm. 1 - 6.

Richtlinie 2010/75/EU (VOC): 44,9 %
 Richtlinie 2010/75/EU (VOC): 413,08 g/l

Wassergefährdungsklasse (Deutschland): 2

Störfallverordnung beachten.

Jugendarbeitsschutzgesetz - JArbSchG beachten (Deutschland).
 Arbeitsplatzgrenzwerte/Biologische Grenzwerte siehe Abschnitt 8.
 Die TRGS 401 (Deutschland) "Gefährdung durch Hautkontakt - Ermittlung, Beurteilung, Maßnahmen" beachten.

Lagerklasse nach TRGS 510:
 3 Entzündbare Flüssigkeiten oder desensibilisierte explosive Flüssigkeiten

Nationale Vorgaben/Verordnung über Sicherheit und Gesundheitsschutz bei Verwendung von Arbeitsmitteln sind anzuwenden.

15.2 Stoffsicherheitsbeurteilung

Eine Stoffsicherheitsbeurteilung ist für Gemische nicht vorgesehen.

ABSCHNITT 16: Sonstige Angaben

Überarbeitete Abschnitte: 8
 Schulung der Mitarbeiter im Umgang mit Gefahrgütern erforderlich.
 Diese Angaben beziehen sich auf das Produkt im Anlieferzustand.
 Einweisung/Schulung der Mitarbeiter für den Umgang mit Gefahrstoffen erforderlich.

Einstufung und verwendete Verfahren zur Ableitung der Einstufung des Gemisches gemäß der Verordnung (EG) 1272/2008 (CLP):

Einstufung gemäß Verordnung (EG) Nr. 1272/2008 (CLP)	Verwendete Bewertungsmethode
Flam. Liq. 2, H225	Einstufung aufgrund von Testdaten.
Eye Irrit. 2, H319	Einstufung gemäß Berechnungsverfahren.
Skin Irrit. 2, H315	Einstufung gemäß Berechnungsverfahren.
Skin Sens. 1, H317	Einstufung gemäß Berechnungsverfahren.

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STOT SE 3, H336	Einstufung gemäß Berechnungsverfahren.
Aquatic Chronic 2, H411	Einstufung gemäß Berechnungsverfahren.

Nachfolgende Sätze stellen die ausgeschriebenen H-Sätze, Gefahrenklasse-Code (GHS/CLP) der Ingredienten dar.

H361f Kann vermutlich die Fruchtbarkeit beeinträchtigen.

H225 Flüssigkeit und Dampf leicht entzündbar.

H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.

H315 Verursacht Hautreizungen.

H317 Kann allergische Hautreaktionen verursachen.

H319 Verursacht schwere Augenreizung.

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.

EUH066 Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

Flam. Liq. — Entzündbare Flüssigkeiten

Eye Irrit. — Augenreizung

Skin Irrit. — Reizwirkung auf die Haut

Skin Sens. — Sensibilisierung der Haut

STOT SE — Spezifische Zielorgan-Toxizität (einmalige Exposition) - Narkotisierende Wirkungen

Aquatic Chronic — Gewässergefährdend - chronisch

Asp. Tox. — Aspirationsgefahr

Aquatic Acute — Gewässergefährdend - akut

Repr. — Reproduktionstoxizität

STOT RE — Spezifische Zielorgan-Toxizität (wiederholte Exposition)

Wichtige Literatur und Datenquellen:

Verordnung (EG) Nr. 1907/2006 (REACH) und Verordnung (EG) Nr. 1272/2008 (CLP) in der jeweils gültigen Fassung.

Leitlinien zur Erstellung von Sicherheitsdatenblättern in der gültigen Fassung (ECHA).

Leitlinien zur Kennzeichnung und Verpackung gemäß Verordnung (EG) Nr. 1272/2008 (CLP) in der gültigen Fassung (ECHA).

Sicherheitsdatenblätter der Inhaltsstoffe.

ECHA-homepage - Informationen über Chemikalien.

GESTIS-Stoffdatenbank (Deutschland).

Umweltbundesamt "Rigoletto" Informationsseite Wassergefährdende Stoffe (Deutschland).

EU-Arbeitsplatzgrenzwerte Richtlinien 91/322/EWG, 2000/39/EG, 2006/15/EG, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831 in der jeweils gültigen Fassung.

Nationale Arbeitsplatzgrenzwerte-Listen der jeweiligen Länder in der jeweils gültigen Fassung.

Vorschriften zum Transport gefährlicher Güter im Straßen-, Schienen-, See- und Luftverkehr (ADR, RID, IMDG, IATA) in der jeweils gültigen Fassung.

Eventuell in diesem Dokument verwendete Abkürzungen und Akronyme:

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße)

alkoholbest. alkoholbeständig

allg. Allgemein

Anm. Anmerkung

AOX Adsorbierbare organische Halogenverbindungen

Art., Art.-Nr. Artikelnummer

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate (= Schätzwert der akuten Toxizität)

BAFU Bundesamt für Umwelt (Schweiz)

BAM Bundesanstalt für Materialforschung und -prüfung

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BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

BCF Bioconcentration factor (= Biokonzentrationsfaktor)

Bem. Bemerkung

BG Berufsgenossenschaft

BG BAU Berufsgenossenschaft der Bauwirtschaft (Deutschland)

BSEF The International Bromine Council

bzw. beziehungsweise

ca. zirka / circa

CAS Chemical Abstracts Service

ChemRRV Chemikalien-Risikoreduktions-Verordnung (Schweiz)

CLP Classification, Labelling and Packaging (VERORDNUNG (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen)

CMR carcinogen, mutagen, reproduktionstoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)

DMEL Derived Minimum Effect Level (= abgeleiteter Minimaler-Effekt-Grenzwert)

DNEL Derived No Effect Level (= abgeleiteter Nicht-Effekt-Grenzwert)

DOC Dissolved organic carbon (= Gelöster organischer Kohlenstoff)

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) (=

Konzentration/Dosis mit einer Wirkung von x % auf die Reduktion der Biomasse (Algen, Pflanzen))

ECHA European Chemicals Agency (= Europäische Chemikalienagentur)

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect (= Konzentration/Dosis mit einer Wirkung von x %)

EG Europäische Gemeinschaft

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN Europäischen Normen

EPA United States Environmental Protection Agency (United States of America)

ErCx, EpCx, ErLx (x = 10, 50) Effect concentration/Level of x % on inhibition of the growth rate (algae, plants) (= Konzentration mit einer Wirkung von x % auf die Hemmung der Wachstumsrate (Algen, Pflanzen))

etc., usw. et cetera, und so weiter

EU Europäische Union

EVAL Ethylen-Vinylalkohol-Copolymer

EWG Europäische Wirtschaftsgemeinschaft

Fax. Faxnummer

gem. gemäß

ggf. gegebenenfalls

GGVSEB Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt (Deutschland)

GGVSee Gefahrgutverordnung See (Verordnung über die Beförderung gefährlicher Güter mit Seeschiffen, Deutschland)

GHS Globally Harmonized System of Classification and Labelling of Chemicals (= Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien)

GISBAU Gefahrstoff-Informationssystem der BG Bau - Berufsgenossenschaft der Bauwirtschaft (Deutschland)

GisChem Gefahrstoffinformationssystem Chemikalien der BG RCI - Berufsgenossenschaft Rohstoffe und chemische Industrie und der BGHM - Berufsgenossenschaft Holz und Metall (Deutschland)

GWP Global warming potential (= Treibhauspotenzial)

IARC International Agency for Research on Cancer (= Internationale Agentur für Krebsforschung)

IATA International Air Transport Association (= Internationale Flug-Transport-Vereinigung)

IBC (Code) International Bulk Chemical (Code)

IMDG-Code International Maritime Code for Dangerous Goods (= Gefährliche Güter im internationalen Seeschiffsverkehr)

inkl. inklusive, einschließlich

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry (= Internationale Union für reine und angewandte Chemie)

k.D.v. keine Daten vorhanden

KFZ, Kfz Kraftfahrzeug

Koc Adsorptionskoeffizient des organischen Kohlenstoffs im Boden

Konz. Konzentration

Kow Octanol/Wasser-Verteilungskoeffizient

LC50 Lethal Concentration to 50 % of a test population (= Für 50 % einer Prüfpopulation tödliche Konzentration)

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) (= Für 50 % einer Prüfpopulation tödliche Dosis (mediane letale Dosis))

LGK Lagerklasse

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LOEC, LOEL Lowest Observed Effect Concentration/Level (niedrigste Konzentration/Dosis mit beobachteter Wirkung)

Log Koc Logarithmus des Adsorptionskoeffizienten des organischen Kohlenstoffs im Boden

Log Kow, Log Pow Logarithmus des Octanol/Wasser-Verteilungskoeffizienten

LQ Limited Quantities (= begrenzte Mengen)

LRV Luftreinhalte-Verordnung (Schweiz)

LVA Listen über den Verkehr mit Abfällen (Schweiz)

MARPOL Internationale Übereinkommen zur Verhütung der Meeresverschmutzung durch Schiffe

mg/kg bw mg/kg body weight (= mg/kg Körpergewicht)

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day (= mg/kg Körpergewicht/Tag)

mg/kg dw mg/kg dry weight (= mg/kg Trockengewicht)

mg/kg feed mg/kg Futter

mg/kg wwt mg/kg wet weight (= mg/kg Feuchtmasse)

Min., min. Minute(n) oder mindestens oder Minimum

n.a. nicht anwendbar

n.g. nicht geprüft

n.v. nicht verfügbar

NIOSH National Institute for Occupational Safety and Health (= Nationales Institut für Arbeitssicherheit und Gesundheit (USA))

NLP No-longer-Polymer (= Nicht-mehr-Polymer)

NOEC, NOEL No Observed Effect Concentration/Level (= Konzentration/Dosis ohne beobachtete Wirkung)

OECD Organisation for Economic Co-operation and Development (= Organisation für wirtschaftliche Zusammenarbeit und Entwicklung)

org. organisch

OSHA Occupational Safety and Health Administration (= Arbeitssicherheit-und Gesundheitsbehörde (USA))

PBT persistent, bioaccumulative and toxic (= persistent, bioakkumulierbar und toxisch)

PE Polyethylen

PNEC Predicted No Effect Concentration (= abgeschätzte Nicht-Effekt-Konzentration)

Pt. Punkt

PVC Polyvinylchlorid

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (VERORDNUNG (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. (= 6/7/8/9xx-xxx-x Nr. wird automatisch vergeben, z.B. auf Vorregistrierungen ohne CAS-Nr. oder andere numerische Kennung. Listennummern haben keine rechtliche Bedeutung, sondern sind rein technische Identifikatoren für die Bearbeitung einer Einreichung über REACH-IT.)

resp. respektive

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)

SVHC Substances of Very High Concern (= besonders besorgniserregende Substanzen)

Tel. Telefon

TOC Total organic carbon (= Gesamter organischer Kohlenstoff)

TRGS Technische Regeln für Gefahrstoffe

UVEK Eidgenössisches Departement für Umwelt, Verkehr, Energie und Kommunikation (Schweiz)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods (die Empfehlungen der Vereinten Nationen für die Beförderung gefährlicher Güter)

UV Ultraviolett

VbF Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)

VeVA Verordnung über den Verkehr mit Abfällen (Schweiz)

VOC Volatile organic compounds (= flüchtige organische Verbindungen)

vPvB very persistent and very bioaccumulative (= sehr persistent und sehr bioakkumulierbar)

WBF Eidgenössisches Departement für Wirtschaft, Bildung und Forschung (Schweiz)

WGK Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen - AwSV (Deutsche Verordnung)

WGK1 schwach wassergefährdend

WGK2 deutlich wassergefährdend

WGK3 stark wassergefährdend

z. Zt. zur Zeit

z.B. zum Beispiel

Die hier gemachten Angaben sollen das Produkt im Hinblick auf die erforderlichen Sicherheitsvorkehrungen beschreiben,

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sie dienen nicht dazu bestimmte Eigenschaften zuzusichern und basieren auf dem heutigen Stand unserer Kenntnisse.
Haftung ausgeschlossen.

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

1.1 Product identifier

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Art.: 265310

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

Relevant identified uses of the substance or mixture:

Adhesive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

GB

Schueco UK Limited
Whitehall Avenue, Kingston
Milton Keynes, MK10 0AL
Tel.: +44 19 082 821 – 11
Fax: +44 19 082 821 – 24
Homepage: www.schueco.uk

E-mail address of the competent person: kschnurbusch@schueco.com

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+1 872 5888271 (SCO)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Eye Irrit.	2	H319-Causes serious eye irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves and eye protection / face protection.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P403+P233-Store in a well-ventilated place. Keep container tightly closed.

Ethyl acetate

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Hydrocarbons, C9-unsaturated, polymerized

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

Ethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475103-46-XXXX
Index	607-022-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4
CAS	141-78-6
content %	20-30
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	---
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Hydrocarbons, C9-unsaturated, polymerized	
Registration number (REACH)	01-2119555292-40-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	615-276-3
CAS	71302-83-5
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1, H317 Aquatic Chronic 3, H412

Bis(isopropyl)naphthalene	
Registration number (REACH)	01-2119565150-48-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	254-052-6
CAS	38640-62-9
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

n-hexane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119480412-44-XXXX
Index	601-037-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-777-6
CAS	110-54-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 1, H372 (nervous system) Asp. Tox. 1, H304 Aquatic Chronic 2, H411

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

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Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

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Avoid contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Or:

Allow product to harden.

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

If applicable, suction measures at the workstation or on the processing machine necessary.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store cool.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m³

Chemical Name		Ethyl acetate	
WEL-TWA: 200 ppm (734 mg/m3) (WEL-TWA, EU)		WEL-STEL: 400 ppm (1468 mg/m3) (WEL-STEL, EU)	---
Monitoring procedures:		- Draeger - Ethyl Acetate 200/a (CH 20 201) - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178) - DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002 - NIOSH 1457 (ETHYL ACETATE) - 1994 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996	
BMGV: ---		Other information: ---	
Chemical Name		Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
WEL-TWA: 800 mg/m3		WEL-STEL: ---	---
Monitoring procedures:		- Compur - KITA-187 S (551 174)	
BMGV: ---		Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)	
Chemical Name		n-hexane	
WEL-TWA: 72 mg/m3 (20 ppm) (WEL-TWA, EU)		WEL-STEL: ---	---
Monitoring procedures:		- Draeger - Hexane 10/a (81 03 681) - Compur - KITA-113 SA (549 350) - Compur - KITA-113 SB (549 368) - Compur - KITA-113 SC (503 787) - DFG Meth. Nr. 1 (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 1) - 2014, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische) - 2014 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische) - 2014 - INSHT MTA/MA-029/A92 (Determination of aliphatic hydrocarbons (n-hexane, n-heptane, n-octane, n-nonane) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 26-1 (2004) - NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 - OSHA PV2248 (n -Hexane) - 1995	
BMGV: ---		Other information: ---	
Chemical Name		Silicon dioxide	
WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3 (resp. dust)		WEL-STEL: ---	---
Monitoring procedures:		---	
BMGV: ---		Other information: ---	
Chemical Name		Calcium carbonate	
WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust)		WEL-STEL: ---	---
Monitoring procedures:		---	
BMGV: ---		Other information: ---	

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Ethyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,24	mg/l	
	Environment - marine		PNEC	0,024	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sediment, freshwater		PNEC	1,15	mg/kg dw	
	Environment - sediment, marine		PNEC	0,115	mg/kg dw	
	Environment - soil		PNEC	0,148	mg/kg dw	
	Environment - sewage treatment plant		PNEC	650	mg/l	
	Environment - oral (animal feed)		PNEC	200	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m3	

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	



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n-hexane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	16	mg/m ³	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5,3	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	4	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	75	mg/m ³	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/day	

Silicon dioxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - oral (animal feed)		PNEC	60000	mg/kg feed	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4	mg/m ³	

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/EC). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/EC). |
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/EC), (14) = The substance can cause sensitisation of the skin (2004/37/EC), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Barrier (PE/PA/PE) (EN ISO 374)

Permeation time (penetration time) in minutes:

480

With short-term contact:

Protective Viton® / fluoroelastomer gloves (EN ISO 374).

Minimum layer thickness in mm:

0,7

Permeation time (penetration time) in minutes:

15

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Black

Odour:

Characteristic

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range:

77 °C

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Flammability:	Flammable
Lower explosion limit:	0,6 Vol-%
Upper explosion limit:	11,5 Vol-%
Flash point:	-15 °C
Auto-ignition temperature:	>200 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	30000 mPas (20°C, Brookfield, Dynamic viscosity)
Kinematic viscosity:	>20,5 mm ² /s (40°C)
Solubility:	partially, Soluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	97 hPa (20°C)
Density and/or relative density:	0,92 g/cm ³
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.

9.2 Other information

Explosives:	Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.
Oxidising liquids:	No
Solvents content:	44,9 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.



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Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ethyl acetate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4934	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC0	29,3	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Chinese Hamster
Germ cell mutagenicity:				Mammalian	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Chinese Hamster
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	, 90-92 days
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,002	mg/kg	Rat	Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS))	
Aspiration hazard:						No

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Symptoms:						lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting., fatigue
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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	>25,2	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Analogous conclusion, No (inhalation and skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Analogous conclusion, Negative
Carcinogenicity:						Analogous conclusion, Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Not irritant (respiratory tract).



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Specific target organ toxicity - repeated exposure (STOT-RE):						Negative
Aspiration hazard:						Yes
Symptoms:						drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

Hydrocarbons, C9-unsaturated, polymerized						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Respiratory or skin sensitisation:						Yes (skin contact)
Aspiration hazard:						No

n-hexane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	16000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	171,6	mg/l/1h	Rat		
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Aspiration hazard:						Yes
Symptoms:						drowsiness, unconsciousness, blisters, cornea opacity, coughing, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, watering eyes, nausea

Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes

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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		References
Acute toxicity, by inhalation:	LC50	>0,139	mg/l/4h	Rat		References, Maximum achievable concentration.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant, Mechanical irritation possible., References
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity (Developmental toxicity):						No indications of such an effect.
Symptoms:						eyes, reddened

Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation:						No (skin contact)
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative, administered as Ca-lactate
Reproductive toxicity:						Negative, administered as Ca-carbonate

11.2. Information on other hazards

Adhesive for EPDM						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes

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Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Adhesive for EPDM							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.

Ethyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	32d	<9,65	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	230	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	48h	333	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2,4	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	165	mg/l			Daphnia cucullata
12.1. Toxicity to algae:	EC50	48h	5600	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	NOEC/NOEL	96h	2000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l	Pseudokirchneria subcapitata	OECD 201 (Alga, Growth Inhibition Test)	

12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	48h	3300	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:	BOD	20d	79	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF	72h	30				(Fish)
12.3. Bioaccumulative potential:	Log Kow		0,68			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1).25 °C
12.4. Mobility in soil:	H (Henry)		0,00012	atm*m3/mol			
12.4. Mobility in soil:	Koc		3				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							Negative
Toxicity to bacteria:	EC10	18h	2900	mg/l	Pseudomonas putida	DIN 38412 T.8	
Toxicity to bacteria:	EC10	16h	2900	mg/l	Escherichia coli		
Toxicity to bacteria:	EC50	15min	5870	mg/l	Photobacterium phosphoreum		

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	EL50	48h	3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EL50	72h	30-100	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	81	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Analogous conclusion, Readily biodegradable

12.2. Persistence and degradability:		28d	98	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Hydrocarbons, C9-unsaturated, polymerized							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:							Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

n-hexane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,5	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	EC50	48h	2,1	mg/l	Daphnia magna		References
12.3. Bioaccumulative potential:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Silicon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h	>10000	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Abiotically degradable.
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Calcium carbonate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

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12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>200	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.3. Bioaccumulative potential:							Not relevant for inorganic substances.
12.4. Mobility in soil:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							Not to be expected
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Negative

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

GB

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Adhesive for EPDM

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

Hardened product:

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:	1133	
14.2. UN proper shipping name:		
UN 1133 ADHESIVES		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
14.5. Environmental hazards:	environmentally hazardous	
Tunnel restriction code:	D/E	
Classification code:	F1	
LQ:	5 L	
Transport category:	2	

Transport by sea (IMDG-code)

14.1. UN number or ID number:	1133	
14.2. UN proper shipping name:		
UN 1133 ADHESIVES		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
14.5. Environmental hazards:	environmentally hazardous	
Marine Pollutant:	Yes	
EmS:	F-E, S-D	

Transport by air (IATA)

14.1. UN number or ID number:	1133	
14.2. UN proper shipping name:		
UN 1133 Adhesives		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
14.5. Environmental hazards:	Not applicable	

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
P5c		5000	50000
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

44,9 %

Directive 2010/75/EU (VOC):

413,08 g/l

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. — Flammable liquid

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard

Aquatic Acute — Hazardous to the aquatic environment - acute

Repr. — Reproductive toxicity

STOT RE — Specific target organ toxicity - repeated exposure

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

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EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EuCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight

mg/kg ww mg/kg wet weight

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

GB

Page 23 of 23

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 05.06.2025 / 0010

Replacing version dated / version: 04.03.2025 / 0009

Valid from: 05.06.2025

PDF print date: 06.06.2025

Adhesive for EPDM

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

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Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER283812



SACO SHIPPING LINE LTD

Consigned to order of

SGL TRANSGROUP DE MEXICO SA DE CV.
PASEO DE LAS PALMAS 405-501
LOMAS DE CHAPULTEPEC III SECCION,
CP 11000 CIUDAD DE MEXICO
TAX ID STM2012087C3
OPERATIONS.MEX@SCANGL.COM

Notify Party and address

SGL TRANSGROUP DE MEXICO SA DE CV.
PASEO DE LAS PALMAS 405-501
LOMAS DE CHAPULTEPEC III SECCION,
CP 11000 CIUDAD DE MEXICO
TAX ID STM2012087C3
OPERATIONS.MEX@SCANGL.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

6/05/BRE/525502

Copy

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading HAMBURG	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain
DISEÑO Y FABRICACION DECERRAMENTOS SANTIAGO DE QUERETARO MX	2 PACKAGES	ADHESIVES (HYDROCARBONS, C6-C7) 2 FIBREBOARD BOXES (4G) UN 1133 / CLASS 3 / PG II NET WEIGHT: 1,08 KG GROSS WEIGHT: 1,71 KG HS CODE: 35061000	Gross weight, kg. 1,707 Measurement, m ³ 0,013
STOWED INTO CONTAINER NO.: FFAU8012187		SEAL : B051657	
TOTAL		2 PACKAGES	1,707 KGS 0,013 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;

- 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
- 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 03.05.2026

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

Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
EORI+DE6702740

B/L No.
VER283815



SACO SHIPPING LINE LTD

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

6/05/BRE/525503

Copy

Consigned to order of
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

Notify Party and address
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN, GERMANY	
Port of discharge VERACRUZ, MEXICO	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. GÜTERMANN MEXICO REF: 9121106428+9	Quantity of Goods 2 PALLETS	Description of Goods SYNTHETIC SEWING THREAD HS CODE: 500600, 520420, 540110, 540120 **HSCODE: 5006**	Said to contain Gross weight, kg. 349,457 Measurement, m ³ 2,102

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL **2 PALLETS** **349,457 KGS** **2,102 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

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
BREMEN 03.05.2026

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



Shipper

EVONIK OPERATIONS GMBH
 WERK STEINAU, MAX-WOLF-STRASSE 7
 36396 STEINAU A.D. STRASSE, GERMANY
 TRANSPORTMANAGEMENT-STN@EVONIK.COM
 TEL: +49 6181-59-12468
 VAT# DE114138241

B/L No.
 VER283819



SACO SHIPPING LINE LTD

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

6/05/BRE/525504

Copy

Consigned to order of

LESCHACO MEXICANA SA DE CV.
 BLVD. MANUEL AVILA CAMACHO
 NO. 88 PISO 5
 COL. LOMAS DE CHAPULTEPEC
 CP.11000, CIUDAD DE MEXICO, MEXICO
 RFC: LME980116R15 CONTACT: ELIZABETH LUNA
 E-MAIL: ELIZABETH.LUNA@LESCHACO.COM

Notify Party and address

LESCHACO MEXICANA SA DE CV.
 PASEO DE LA NINA 150 TORRE 1519
 PISO 12-01, 94298, FRACC.
 LAS AMERICAS, BOCA DEL RIO, VER,
 MEXICO - RFC: LME980116R15
 MAIL: LIZBETH.VARGAS@EVONIK.COM
 CONTACT: ELIZABETH LUNA

		Place of receipt				
		STEINAU CFS				
Ocean vessel	Port of loading					
ARGUS	HAMBURG					
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading			
VERACRUZ	VERACRUZ CFS	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

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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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 03.05.2026

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



Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
EVONIK INDUSTRIES DE MEXICO P.O. 46503256 DERMOFEEL SENSOLV MB EVONIK ORDER NO. 3012432687 VERACRUZ / MEXICO EVONIK INDUSTRIES DE MEXICO P.O. 46506675 VARISOFT EQ 100 EVONIK ORDER NO. 3012432680 VERACRUZ / MEXICO EVONIK INDUSTRIES DE MEXICO P.O. 46504258 VARISOFT EQ 65 MB EVONIK ORDER NO. 3012432663 VERACRUZ / MEXICO STOWED INTO CONTAINER NO.: FFAU8012187	4 PALLETS	DERMOFEEL SENSOLV MB HS-CODE: 291590 2 DRUM VARISOFT EQ100 HS-CODE: 340241 2 DRUM VARISOFT EQ 65 MB HS-CODE: 382499 30 BAG		1524,720	4,156
SEAL : B051657					
TOTAL	4 PALLETS			1524,720 KGS	4,156 CBM

Shipper
F. UNDUETSCH GMBH

B/L No.
VER283821

EMIL-SOMMER-STR. 4-6
28329 BREMEN / GERMANY



SACO SHIPPING LINE LTD

Consigned to order of

COLEGIO HUMBOLDT AC/SRA.SUSANA
ORTEGA / AV. TOLTECA PONIENTE NO. 2
FRACC. NUEVO HUMBOLDT / 72735
CUAUTLancingo, PUEBLA / MEXIC
RFC: CHU-840202-R79 /
TEL. +52 (222) 285 5153 EXT. 150

Notify Party and address

CORPORACION MEXICO EXPRESS SC
PASEO COLON NO. 2421 NO.INT. B COL.
MADERO C.P. 88270 / NUEVO LAREDO
TAMAULIPAS / RFC: GOJF580528064V6
TEL. 55-36-32-85-14

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

6/05/BRE/525505

Copy

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading HAMBURG	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. FUCO 10290 / 1-20 PUEBLA / MEXICO	Quantity of Goods 3 PALLETS	Description of Goods S.T.C. LIBROS Y MATERIAL DIDACTICO HS-CODE: 39261000,49019900,49119900, 85051910,8518100085198100,901790 00, 90230010,90230080,92060000,92099 970, 95030021,95030049,95030095,95049 080, 96100000	Said to contain Gross weight, kg. 492,000 Measurement, m ³ 3,984

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL 3 PALLETS 492,000 KGS 3,984 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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b) assumes liability as prescribed in this document for such transport.

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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 03.05.2026

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

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach § 6 GefStoffV (IMO-Erklärung)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS
(IMO-DANGEROUS GOODS DECLARATION)

VER283823_1_1/1

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4.2; MARPOL 73/78, Anlage III, Regel 5 Absatz 2 und dem IMDG-Code, Kapitel 5.4. This form meets the requirements of SOLAS 74, chapter VII regulation 4.2; MARPOL 73/78, Annex III, regulation 5.2 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) Shipper (Name & Address) Sudarshan Langeleim PLT GmbH Heubachstraße 7 38685 Langeleim GERMANY		Buchungsummer(n) Reference number(s)			
Empfänger Consignee Sudarshan Mexico MFG S.A. de C.V. Plásticos No. 28, Col. Santa Clara Coatlila, 55540 Ecatepec de Morelos, Edo de México 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					
Schiffname und Nummer der Reise Ship's name and voyage No. ARGUS		Ladehafen Port of loading Bremenhaven			
Ladehafen Port of discharge Veracruz		(Frei für Text, Anweisungen und sonstige Angaben) (Reserved for text, instructions or other matter) Emergency-Contact-Phone / CHEMTREC - Day or Night / Reg. no. CCN200555 Outside Continental USA: 703-527-3887 / Within USA: 1-800-424-9300			
UN-Nr. (Corrected technical name) UN-140.	Klasse/Unterklasse (IMO Class) Subsidiary Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls symbol, 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	
UN3077	Environmentally hazardous substance solid, n.o.s. (TRIZINCBS/ORTHO-PHOSPHATE)	9	III	HEUCOPHOS ZCP-PLUS ref #211645	200 paper bags (5M2) of 25 kg net each
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettoverpackungsmenge (Volumen/Masse) Net explosive mass ***		Merkmale-Nr. für Unfall-Maßnahmen EmS-No.		Eigenschaften / Properties Flammpunkt / Flashpoint Kontroll- und Notleittemperatur ** Control- and emergency temperature **	
5160 kg gross 5000 kg net		F-A, S-F		MARINE POLLUTANT	
Zusätzliche Angaben Under bestimmten Bedingungen und 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).		Güter angeliefert als / Goods delivered as: ☒ Stückgut / Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) ☐ Unfilled cargo ☐ Bulkverpackungen / Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (Container, trailer, tank, vehicle etc.) ☐ offen / open ☒ geschlossen / closed Zuschließendes 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 blank from the heading, in which case insert appropriate description).			
ERKLÄRUNG DES VERSENDERS: 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, gekennzeichnet und beaufschlagt und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. SHIPPER'S DECLARATION: I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged and labeled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.					
Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory I, A. Appel / Deputy Manager Logistics Ort und Datum Pilsen and date Langeleim, 2026-04-10 Sudarshan Langeleim PLT GmbH Heubachstraße 7 38685 Langeleim Deutschland / Germany					

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZCP-PLUS

Article-No.: 1001705

Revision Date: 03.02.2025

Replaces version from: 10.11.2022

Version: 2.12/en

Print date: 16.01.2026



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

1.1 Product identifier

Commercial Product Name **HEUCOPHOS ZCP-PLUS**

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

Relevant identified uses Anticorrosion additive (Industrial)

1.3 Details of the supplier of the safety data sheet

Company designation Sudarshan Langelsheim PLT GmbH
Heubachstrasse 7
D-38685 Langelsheim
Telephone: +49(0)5326-52-0
FAX: +49(0)5326-52-213
Email: -
Internet: www.heubach.com

Responsible Department Email: DL-DELH.Product-Safety@heubach.com

1.4 Emergency telephone number

Argentina	CHEMTREC Argentina (Buenos Aires): +(54)-1159839431
Brazil	CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449
Chile	CHEMTREC Chile (Santiago): +(56)-225814934
Colombia	CHEMTREC Colombia: 01800-710-2151
Mexico	CHEMTREC Mexico: 01-800-681-9531
Peru	CHEMTREC Peru (Lima): +(51)-17071295
Bahrain	CHEMTREC Bahrain: +(973)-16199372
Israel	CHEMTREC Israel (Tel Aviv): +(972)-37630639
Kuwait National	CHEMTREC Kuwait National: +965-22274681
Saudi Arabia	CHEMTREC Saudi Arabia: +(966)-8111095861
South Africa	CHEMTREC South Africa: 0-800-983-611
Hong Kong	CHEMTREC Hong Kong: 800-968-793
Taiwan	CHEMTREC Taiwan: 00801-14-8954
Philippines	CHEMTREC Philippines (Manila): +(63) 2-395-3308 CHEMTREC Philippines toll free in country: 1-800-1-116-1020
Singapore	CHEMTREC Singapore: +(65)-31581349 toll free in country: 800-101-2201
Thailand	CHEMTREC Thailand: 001-800-13-203-9987
Vietnam	CHEMTREC Vietnam (Hanoi): +(84)-444581938

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation Aquatic Chronic 1; H410
(EC) No. 1272/2008

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZCP-PLUS

Article-No.: 1001705

Revision Date: 03.02.2025

Replaces version from: 10.11.2022

Version: 2.12/en

Print date: 16.01.2026

**2.2 Label elements**

Hazard pictogram



GHS09

Signal word

Warning

H-statement(s)

H410: Very toxic to aquatic life with long lasting effects.

P-statement(s)

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local / regional / national or international regulations..

2.3 Other hazards

Article 59(1) - endocrine disrupting properties

The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2 Mixtures***** Information on ingredients**

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
trizinc bis(orthophosphate)	CAS No.: 7779-90-0 EC-No.: 231-944-3 Index-No.: 030-011-00-6 REACH No.: 01-2119485044-40-0000	Aquatic Acute 1; H400 (M=1) Aquatic Chronic 1; H410 (M=1)	25.0 - 50.0 % by weight
zinc oxide	CAS No.: 1314-13-2 EC-No.: 215-222-5 Index-No.: 030-013-00-7 REACH No.: 01-2119463881-32	Aquatic Acute 1; H400 (M=1) Aquatic Chronic 1; H410 (M=1)	< 10.0 % by weight

other substance information

Ingredient	Numbers	M- factor - SCL - ATE	Other
trizinc bis(orthophosphate)	CAS No.: 7779-90-0 EC-No.: 231-944-3 Index-No.: 030-011-00-6 REACH No.: 01-2119485044-40-0000	acute:1 chronic:1	
zinc oxide	CAS No.: 1314-13-2 EC-No.: 215-222-5 Index-No.: 030-013-00-7 REACH No.: 01-2119463881-32	acute:1 chronic:1	

Other data

Full text of H- and EUH-phrases: see section 16.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZCP-PLUS

Article-No.: 1001705

Revision Date: 03.02.2025

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Print date: 16.01.2026



SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.
If inhaled	In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention if you feel unwell.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap.
In case of eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If eye irritation persists: Get medical advice/attention.
If swallowed	When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No significant reactions of the human body to the product known.
----------	--

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention	Treat symptomatically.
-----------------------------	------------------------

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguishing powder Water spray jet In case of major fire and large quantities: alcohol resistant foam
Extinguishing media which must not be used for safety reasons	Full water jet Carbon dioxide

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Co-ordinate fire-fighting measures to the fire surroundings. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Hazardous decomposition byproducts may form with exposure to high temperatures.: Gases/vapours, toxic. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.
---	---

5.3 Advice for firefighters

Special protective equipment for fire-fighting	Use personal protection equipment. In case of fire: Wear self-contained breathing apparatus.
--	---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid generation of dust. Wear personal protection equipment (refer to section 8). Wear breathing apparatus if exposed to vapours/dusts/aerosols.
----------------------	---

6.2 Environmental precautions

Environmental precautions	Do not allow to enter into surface water or drains.
---------------------------	---

Safety Data Sheet as per regulation (EC) 1907/2006

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If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Avoid generation of dust.
Wet clean or vacuum up solids.
Collect in closed and suitable containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Reference to other sections

Observe protective provisions (see chapter 7 and 8).
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid generation of dust.
Wear suitable protective clothing.
If the formation of dust is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.
Wear eye glasses with side protection according to EN 166.
When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Store in a dry place.
Keep/Store only in original container.

TRGS 510

Storage class 13

7.3 Specific end use(s)

Specific use(s)

For the relevant identified uses listed in section 1 the advice in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

trizinc bis(orthophosphate)

*DNEL	Target group	Exposure route	Source
Not applicable	DNEL worker	DNEL long-term inhalative (systemic)	REACH Dossier
Not applicable	DNEL worker	DNEL long-term dermal (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term dermal (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term inhalative (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term oral (repeated)	REACH Dossier

*PNEC	Exposure route	Remarks	Source
14,4 µgZn/L	PNEC aquatic, freshwater	Zn++	REACH Dossier
7,2 µgZn/L	PNEC aquatic, marine water	Zn++	REACH Dossier

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146,9 mgZn/kg sediment dw	PNEC sediment, freshwater	Zn++	REACH Dossier
162,2 mgZn/kg sediment dw	PNEC sediment, marine water	Zn++	REACH Dossier
83,1 mgZn/kg soil dw	PNEC soil	Zn++	REACH Dossier
100 µgZn/L	PNEC sewage treatment plant (STP)	Zn++	REACH Dossier
85 µgZn/L	PNEC aquatic, freshwater	* 1)	REACH Dossier
42,5 µgZn/L	PNEC aquatic, marine water	* 1)	REACH Dossier
867,4 mgZn/kg sediment dw	PNEC Sediment (Süßwasser)	* 1)	REACH Dossier
957,7 mgZn/kg sediment dw	PNEC Sediment (Meerwasser)	* 1)	REACH Dossier
490,7 mgZn/kg soil dw	PNEC soil	* 1)	REACH Dossier
590,5 µgZn/L	PNEC sewage treatment plant (STP)	* 1)	REACH Dossier

* 1): trizinc bis(orthophosphate)

zinc oxide

DNEL	Target group	Exposure route	Source
5 mg/m³	DNEL worker	DNEL long-term inhalative (systemic)	REACH Dossier
83 mg/kg bw/day	DNEL worker	DNEL long-term dermal (systemic)	REACH Dossier
83 mg/kg bw/day	DNEL Consumer	DNEL long-term dermal (systemic)	REACH Dossier
2,5 mg/m³	DNEL Consumer	DNEL long-term inhalative (systemic)	REACH Dossier
0,83 mg/kg bw/day	DNEL Consumer	DNEL long-term oral (repeated)	REACH Dossier
0,5 mg/m³	DNEL worker	DNEL long-term inhalative (local)	REACH Dossier

PNEC	Exposure route	Source
20,6 µgZn/L	PNEC aquatic, freshwater	REACH Dossier
6,1 µgZn/L	PNEC aquatic, marine water	REACH Dossier
117,8 mgZn/kg sediment dw	PNEC sediment, freshwater	REACH Dossier
56,5 mgZn/kg sediment dw	PNEC sediment, marine water	REACH Dossier
35,6 mgZn/kg soil dw	PNEC soil	REACH Dossier
100 µgZn/L	PNEC sewage treatment plant (STP)	REACH Dossier

8.2 Exposure controls

Respiratory protection

With normal handling, no respiratory personal protection (breathing apparatus) is necessary.

If risk for exceedance of OEL/DNEL, use e.g.:

dust filter-half mask P1 (DIN EN 149)(efficiency 75%)

dust filter-half mask P2 (DIN EN 149)(efficiency 90%)

dust filter-half mask P3 (DIN EN 149)(efficiency 95%)

dust filter-full mask P1 (DIN EN 149)(efficiency 75%)

dust filter-full mask P2 (DIN EN 149)(efficiency 90 %)

dust filter-full mask P3 (DIN EN 149)(efficiency 97.5%)

Hand protection

Chemical proof protective gloves (EN 374) e.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm), among others. Due to a large variety of types the manufacturer's instructions should be followed.

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Eye protection	Wear eye glasses with side protection according to EN 166.
Skin and body protection	Wear suitable protective clothing.
General protective and hygiene measures	Common employment protection rules and the usual precautions for handling chemicals are to be observed.
Information on environmental protection regulations	Environmental exposure controls. Avoid release to the environment. Do not allow to enter into surface water or drains. Collect spillage. Observe in addition any national regulations!
Consumer exposure controls	See section 7. No additional measures necessary.
Engineering measures	If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
Other information	Dust control: dust and Zn in dust needs to be measured in the workplace air (static or individual) according to national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	Powder
Colour	white
Odour	odourless
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	not determined
Boiling point [°C]	not applicable
Boiling range [°C]	not applicable
Flammability	not determined
Explosion limits [Vol-%]	
Lower limit	not applicable
Upper limit	not applicable
Flash point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
pH	
Temperature [°C]	20 °C
Concentration	100 g/L in aqueous solution 6,5 - 8,0
Viscosity, kinematic [mm²/s]	not applicable
Viscosity, dynamic [kg/(m s)]	not applicable
Water solubility [g/l]	< 5
Measuring method	ISO 787-3
Partition coefficient n-octanol /water (log P O/W)	not applicable

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Vapour pressure [kPa]	not applicable
Density [g/cm³]	3,2
Relative density	not determined
Relative vapour density (air=1)	not applicable
particle properties	average particle size (µm): 2,0 - 3,5 Coulter Multisizer 3

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	No hazardous reaction when handled and stored according to provisions.
------------	--

10.2 Chemical stability

Chemical stability	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.
--------------------	---

10.3 Possibility of hazardous reactions

Hazardous reactions	No hazardous reactions when stored and handled according to instructions.
---------------------	---

10.4 Conditions to avoid

Conditions to avoid	Avoid generation of dust.
---------------------	---------------------------

10.5 Incompatible materials

Materials to avoid	No incompatible materials known. Not expected based on the composition.
--------------------	---

10.6 Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.
----------------------------------	--

SECTION 11: Toxicological information

11.1 Information on the hazard classes within the meaning of Regulation (EU) No. 1272/2008

Oral toxicity [mg/kg]	>5000 mg/kg
Test criterion	LD50:
Test species	rat
Remarks	trizinc bis(orthophosphate)
Test method	OECD 401 >5000 mg/kg
Test criterion	LD50:
Test species	rat
Remarks	zinc oxide
Test method	Source: Manufacturer

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Dermal toxicity [mg/kg]	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Inhalative toxicity [mg/l]	>5,7 mg/kg
Test criterion	LC50:
Test species	Rat
Measuring method	OECD 403
Note	trizinc bis(orthophosphate): trizinc bis(orthophosphate) (based on cross-reading from zinc oxide) is of low acute inhalation toxicity (i.e., LC50 values of > 5.7 mg/L/4 hrs), not leading to classification for acute inhalation toxicity.
Exposure duration [h]	4h >5,7 mg/kg
Test criterion	LC50:
Test species	Rat
Measuring method	Source: Manufacturer
Note	zinc oxide
Exposure duration [h]	4h
Irritant effect on skin	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on eyes	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on the respiratory tract	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Sensitization	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Mutagenicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Carcinogenic effects	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Reproduction toxicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (single exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (repeated exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Aspiration hazard	not applicable

11.2 Information about other hazards

Endocrine disrupting properties	The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation
---------------------------------	--

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(EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]	> 1000
Test criterion	LC50:
Test species	Oncorhynchus mykiss (Rainbow trout)
Exposure duration [h]	96h
Remarks	The statement is derived from products of similar structure or composition.
Toxicity to daphnia [mg/l]	> 1000
Test criterion	EC50
Test species	Daphnia magna
Exposure duration [h]	48h
Remarks	The statement is derived from products of similar structure or composition.
Toxicity to algae [mg/l]	> 100
Test criterion	ErC50:
Test species	Desmodesmus subspicatus.
Exposure duration [h]	72h
Remarks	The statement is derived from products of similar structure or composition.
Aquatic toxicity [mg/l]	Chronic (long-term) toxicity: Very toxic to aquatic life with long lasting effects.
Remarks	Calculation method.

12.2 Persistence and degradability

Biodegradability	No information available.
------------------	---------------------------

12.3 Bioaccumulative potential

Bioaccumulation	No information available.
-----------------	---------------------------

12.4 Mobility in soil

Mobility	
Mobility	No information available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
------------------------------------	---

12.6 Endocrine disrupting properties

Harmful effects on the environment	The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.
------------------------------------	---

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12.7 Other harmful effects

Further information on ecology

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations

Dispose of waste according to applicable legislation. Check for possible recycling. Disposal via wastewater is not recommended.

Uncleaned empty packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning.
Handle contaminated packages in the same way as the substance itself.
Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3077	3077	3077
14.2 Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
14.3 Transport hazard class(es)	9	9	9
14.4 Packaging group	III	III	III
Danger releasing substance	Trizinkbis(orthophosphat)	trizinc bis(orthophosphate)	trizinc bis(orthophosphate)
Labels			
Risk No.	90		
Category	3		
Classification Code	M7		
Name affix	mixture	mixture	mixture
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
UN proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trizinkbis(orthophosphat))	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trizinc bis(orthophosphate))	UN 3077 Environmentally hazardous substance, solid, n.o.s. (trizinc bis(orthophosphate))
EmS		F-A;S-F	
Stowage category		A	

14.6 Special precautions for user

Precautions

Avoid release to the environment.

14.7 Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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SECTION 15: Regulatory information

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

Additional regulations	No information available.
References to substance in ordinances, regulations and information sheets	REACH ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES Number 3, 75

15.2 Chemical safety assessment

Safety assessment	For the following substances of this mixture a chemical safety assessment has been carried out: trizinc bis(orthophosphate) zinc oxide
-------------------	--

SECTION 16: Other information

Modifications since last version	Modifications of the previous version are denoted with an asterisk (*).
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) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) PP: Severe Marine Pollutant P: Marine Pollutant GHS: Globally Harmonized System of Classification and Labelling of Chemicals VCI: Verband der chemischen Industrie, Deutschland (German chemical industry 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) GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) VOC: Volatile Organic Compounds (USA, EU) ISO: International Organization for Standardization DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Relevant H-phrases	H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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Wording of the hazard classes

Aquatic Acute: Hazardous to the aquatic environment
Aquatic Chronic: Hazardous to the aquatic environment

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Evaluation	Classification
Calculation method.	Aquatic Chronic 1; H410

Training advice

Workers should be instructed according to the contents of this MSDS. Workers should be trained on the common employment protection rules and the usual precautions when handling chemicals.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

Shipper
SUDARSHAN LANGELSHEIM PLT GMBH
DE4514611019

HEUBACHSTR. 7
38685 LANGELSHEIM

B/L No.
VER283823



SACO SHIPPING LINE LTD

Consigned to order of

SUDARSHAN MEXICO MFG SA DE CV
PLASTICOS NO. 28, COL SANTA CLARA
COATITLA ECATEPEC DE MORELOS 55540
EDO DE MEXICO, MEXICO
RFC CPA150831D6A
FABIOLA.SANCHEZ@HEUBACH.COM
ATTENTION TO FIABIOLA SANCHEZ

Notify Party and address

TOP CARRIERS SA DE CV
HACIENDA DE TEMIXCO 28, INT. 46
BOSQUE DE ECHEGARAY
53310, NAUCALPAN DE JUAREZ
MEXICO, TAX ID: TCA110203IC7
CONTACT BRIAN RENDON
EMAIL:OPERACIONES5@TOPCARRIERS.COM.MX

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

6/05/BRE/525506

Copy

		Place of receipt				
		BREMEN CFS				
Ocean vessel	Port of loading					
ARGUS	BREMERHAVEN					
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading			
VERACRUZ	VERACRUZ CFS	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;

- 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
- 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 03.05.2026

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

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
PO 4506982616 PO 4506983974	8 PALLETS	320 PAPERBAGS HEUCODUR YELLOW 255 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE: 28352990,32064970 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 5000 KG MARINE POLLUTANT UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 5160,000 KGS IMO NET WEIGHT : 5000,000 KGS		8256,000	13,874
STOWED INTO CONTAINER NO.: FFAU8012187				SEAL : B051657	
TOTAL		8 PALLETS		8256,000 KGS	13,874 CBM

Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER283830



SACO SHIPPING LINE LTD

Consigned to order of
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.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

6/05/BRE/525507

Copy

		Place of receipt DORZBACH CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable DESTINATION
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. SEG AUTOMOTIVE MEXICO 83242812 83242813	Quantity of Goods 2 PACKAGES	Description of Goods CYLINDER HEAD SCREW, CONNECTOR, CLINCH BOLT, COUNTERSUNK SCREW, HEXAGON HEAD SCREW, HS: 73181558, 73181595, 73181499 INVOICES: 70293851 70293852	Said to contain Gross weight, kg. 750,306 Measurement, m ³ 0,807

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL **2 PACKAGES** **750,306 KGS** **0,807 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.
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

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.

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

- 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
- 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 03.05.2026

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



Shipper
ALEXANDER BINZEL
SCHWEISSTECHNIK GMBH & CO. KG
KIESACKER 3 - 9
DE - 35418 BUSECK

B/L No.
VER283848



SACO SHIPPING LINE LTD

Consigned to order of
BINZEL, S.A.DE C.V.
MUNICIPIO DE TEPEZAL #109
VALLE DE AGUASCALIENTES (P.I.V.A.
20358 SAN FCO.DE LOS ROMO, AGS MEXI
TAX ID: BSC 980824 R84

Notify Party and address
SAME AS CONSIGNEE
LOZANO@BINZEL.COM.MX
MR HECTOR LOZANO
TEL. + 52(440)9730116

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

6/05/BRE/525508

Copy

		Place of receipt BREMEN CFS			
Ocean vessel ARGUS		Port of loading BREMERHAVEN			
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m³
BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32601583	3 PACKAGES	WELDING TORCHES AND SPAREPARTS REF# 32601583 HS-CODES: 391739, 392321, 392690, 400911, 732020, 732690, 820310, 820780, 846630, 847989, 848120, 848340, 851590, 853690		899,000	3,080

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL **3 PACKAGES** **899,000 KGS** **3,080 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

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

Note:

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Place and date of issue
BREMEN 03.05.2026

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



Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER283869



SACO SHIPPING LINE LTD

Consigned to order of

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.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
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LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/525509

Copy

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable DESTINATION
		Number of original Bills of Lading 0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain
SEG AUTOMOTVIE MEXICO 00453676 00453677 00453678 00453679 00453680 00453681	18 PALLETS	INTERMEDIATE BEARING, MOTOR BEARING, RING GEAR HS: 84879090 INVOICES: 518537 518538 518539 518540 518541 518542	Gross weight, kg. 2134,191
		Measurement, m ³ 16,339	
STOWED INTO CONTAINER NO.: FFAU8012187		SEAL : B051657	
TOTAL		18 PALLETS	2134,191 KGS 16,339 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.
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;

- 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
- assumes liability as prescribed in this document for such transport.

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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 03.05.2026

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

Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER283870



SACO SHIPPING LINE LTD

Consigned to order of

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LASPALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX IDSTM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.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
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QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
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PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/525510

Copy

		Place of receipt BREMEN CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable DESTINATION
			Number of original Bills of Lading 0/ZERO
Marks and Nos. SEG AUTOMOTIVE MEXICO 6557	Quantity of Goods 1 PALLET	Description of Goods FITTING RING HS: 85119000 INVOICE: 594327	Said to contain Gross weight, kg. 77,000 Measurement, m ³ 0,523

STOWED INTO CONTAINER NO.: FFAU8012187

SEAL : B051657

TOTAL **1 PALLET** **77,000 KGS** **0,523 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.
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;

- 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
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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 03.05.2026

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

Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER283885



SACO SHIPPING LINE LTD

Consigned to order of
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.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

6/05/BRE/525511

Copy

		Place of receipt HILCHENBACH CFS	
Ocean vessel ARGUS		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable DESTINATION
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. SEG AUTOMOTVIE MEXICO 991626347 991628017 STOWED INTO CONTAINER NO.: FFAU8012187	Quantity of Goods 3 PALLETS	Description of Goods SCREWS HS: 73181595 INVOICE NO. R2609353, R2608041	Said to contain Gross weight, kg. 986,550 Measurement, m ³ 1,343
		SEAL : B051657	

TOTAL **3 PALLETS** **986,550 KGS** **1,343 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.
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 03.05.2026

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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Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
EORI+DE6702740

B/L No.
VER283932



SACO SHIPPING LINE LTD

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

6/05/BRE/525512

Copy

Consigned to order of
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

Notify Party and address
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

		Place of receipt BREMEN CFS			
Ocean vessel ARGUS		Port of loading BREMERHAVEN, GERMANY			
Port of discharge VERACRUZ, MEXICO		Place of delivery VERACRUZ CFS		Freight payable BREMEN	
				Number of original Bills of Lading 0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
STARCKE ABRASIVOS MEXICO P0749030 / P0749031 03560 CUIDAD DE MEXICO MEXICO MADE IN GERMANY STOWED INTO CONTAINER NO.: FFAU8012187	2 PALLETS	ABRASIVES HS CODE: 680510, 680520, 680530		800,000	2,457

SEAL : B051657

TOTAL **2 PALLETS** **800,000 KGS** **2,457 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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BREMEN 03.05.2026

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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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