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

NVOCC Services worldwide

Bremen, 27. March 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.: SEFRA26030068

Leistungsdatum : 22.03.2026

INVOICE-No	INVOICE-Date	CUSTOMER-No	SACO-Ref.	B/L-Ref.	Your VAT-ID	R.O.E
5670780	27.03.2026	020896	6/03/BRE/527100	6/03/BRE/5271		0.8669

Vessel:

Destination:

Online-Ref:

Delivery:

Pieces

Gross KOS

Volumen CBM

SACO REF.: VESSEL: PORT: ETA: CONTAINER:
6/03/BRE/5271 CLEMENS SCHULTE ALTAMIRA 09.04.2026 MRSU6797602

Pos.	Description	Rate	Amount	Tax
1	AS PER ATTACHED PL SHEET	1333.71 USD	1333.71	

NO VAT ON

1333.71

VAT ON

0

TOTAL VAT

0

VAT

19%

TOTAL AMOUNT USD

1333.71

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: 12.06.2025 by ECH

Mexico PL-Sheet 2025

valid from Februar 1st 2025



SACO Ref.: 6/03/BRE/5271 Vessel: CLEMENS SCHULTE Port: ALTAMIRA ETA: 09.04.2026 Container: MRSU6797602

B/L	COLLECT	incl.Special charges	Doc fee	Unstuffing	Admin Fee	Transm.Fee	Port Transf	On Carriage	0,00 USD	Quote No.:
ALM257796										
ALM257829										
ALM257863			50,00	28,00					152,00	tariff
ALM257864										
ALM257928										
ALM257943	262,55									
ALM257960										
	262,55		50,00	28,00	0,00	0,00	0,00		152,00	

COLLECT FREIGHT TOTAL	262,55 USD	262,55 USD	debit to Intert
RELEASE FEE	50,00 USD		
UNSTUFFING	28,00 USD		
ADMIN FEE	0,00 USD		
TRANSMISSION FEE	0,00 USD	230,00 USD	credit to Inter
CREDIT FOR ON CARRIAGE	152,00 USD		
PORT TRANSFER	0,00 USD		
kickback as agreed USD 24,00 w/m from B/L date 01.10.2023 FRT: 54,233	1.301,59 USD	1.301,59 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 4,- w/m FRT:	0,00 USD		
Linkin / Europartner/XPD Kickback USD 10,50 w/m FRT:	0,00 USD		
DHL compensation VER USD 15,-w/m FRT:	0,00 USD	0,43 USD	credit to Inter
DHL compensation ALM USD 5,-w/m FRT:	0,00 USD		
K&N compensation USD 8,-w/m FRT:	0,00 USD		
Toll compensation USD 2,-w/m FRT:	0,00 USD		
Ceva compensation USD 1,-w/m FRT: 0,432	0,43 USD		
TOTAL AMOUNT	1.333,71 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			
Geodis	Geodis	USD 37,-	USD 22,-w/m	USD 11,-	USD 11,-	USD 11,-w/m

Manifest

Page: 1

Container-No.: MRSU6797602 40' HIGH CUBE CONTAINER Seal-No.: B136264
Vessel: SAC9999 / CLEMENS SCHULTE
ETS:
Master-B/L.: 721347509

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM257796	TRUMPF MEXICO S. DE R.L. DE C.V. BLVD. APODACA TECHNOLOGY PARK BLVD. APODACA #201 66600 APODACA, NUEVO LEON MEXIKO	14	PALLETS	FREILACKE FREILACKE-REFEREN 11984015 AS PER ORDER: 1268179 HS-CODE: 32082090, 39119019 UN1263 - 3 - III UN1866 - 3 - III UN 1263/CLASS 3/PG III IMO GROSS WEIGHT: 6091,110 KGS IMO NET WEIGHT : 5620,000 KGS UN 1866/CLASS 3/PG III IMO GROSS WEIGHT: 524,000 KGS IMO NET WEIGHT : 500,000 KGS	6897.110	14.457
ALM257829	PO LIGHTING MX DN: 294690	1	PALLET	MOTOR CAR ACCESSORIES HS-CODE: 870899 **HSCODE: 870899**	125.000	1.243
ALM257829	PO LIGHTING MEXICO REF: 4276721	1	PALLET	AUTOMOTIVE SPARE PARTS HS -CODE: 851290 **HSCODE: 851290**	429.555	1.507
ALM257829	PO LIGHTING MEXICO S. DE R.L. DE C.V. DN: GTI26/000333	1	PALLET	MOTOR CAR ACCESSORIES HS-CODE: 870829 **HSCODE: 870829**	149.500	1.008

Manifest

Page: 2

Container-No.: MRSU6797602 40' HIGH CUBE CONTAINER Seal-No.: B136264
Vessel: SAC9999 / CLEMENS SCHULTE
ETS:
Master-B/L.: 721347509

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM257863	ELSTER AMCO DE MEXICO 41092611-10 DN# 21733136	1	PACKAGE	GAS METER AS PER INVOICE NO.: 5348358 HS CODE: 90281000	53.000	0.432
ALM257864	TRUMPF MEXICO S. DE R.L. DE C.V. BLVD. APODACA TECHNOLOGY PARK 66600 - APODACA, NUEVO LEON MEXICO	10	PALLETS	PROTECTIVE COATING, PAINT, CLEARCOAT FREILACKE: 12029004 AS PER ORDER: 1269045 HS-CODES: 32082090, 39119019 UN1263 - 3 - III UN1866 - 3 - III UN 1263/CLASS 3/PG III IMO GROSS WEIGHT: 4162,080 KGS IMO NET WEIGHT : 3840,000 KGS UN 1866/CLASS 3/PG III IMO GROSS WEIGHT: 1048,000 KGS IMO NET WEIGHT : 1000,000 KGS	5430.000	10.426
ALM257928	PLASTIC OMNIUM MEXICO DN 80108744, 80109063,80109065	8	PALLETS	REAR FOG REVERSE LAMP HS CODE: 851220 **HSCODE: 851220**	1340.000	10.080
ALM257928	PLASTIC OMNIUM MEXICO SN 0002516067	9	PALLETS	MOTOR CAR ACCESSORIES HS-CODE: 392690 **HSCODE: 392690**	1150.360	7.069

Manifest

Page: 3

Container-No.: MRSU6797602 40' HIGH CUBE CONTAINER Seal-No.: B136264
Vessel: SAC9999 / CLEMENS SCHULTE
ETS:
Master-B/L.: 721347509

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM257943	CONDUCTIX MEXICO REF.: 1051069993	1	PACKAGE	PROTOLON (SMK)-LWL HS-CODE: 85446010	1725.820	5.251
ALM257960	SONORA FORMING SA DE CV BLVD HENRY FORD 43 83297 HERMOSILLO, SONORA MX	6	PACKAGES	RET DOOR LATSCH STRIKER REF. 85112024 PO. 6010767385	1206.000	2.760

Total	Quantity 52	Grossweight 18.506.345	Measurement 54.233
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**MAERSK****NON-NEGOTIABLE WAYBILL**

SCAC MAEU

B/L No. 721347509

Shipper (As principal, where "care of", "c/o", or other variants used.)
SACO SHIPPING GMBH
AS AGENT OF SACO SHIPPING LINE LTD
BGM.-SMIDT-STR.128
D-28195 BREMEN
GERMANY / DE118597456

Booking No.
721347509

Export references
6/03/BRE/5271

Svc Contract
299542652

Consignee (Negotiable only if consigned "to order", "to order of" a named Person or "to order of bearer".
As principal, where "care of", "c/o", or other variants used.)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

This contract is subject to the terms, conditions and exceptions, including the law & jurisdiction clause and limitation of liability & declared value clauses, of the current Maersk Bill of Lading (available from the Carrier, its agents and at terms.maersk.com/carriage), which are applicable with logical amendments (mutatis mutandis). To the extent necessary to enable the Consignee to sue and to be sued under this contract, the Shipper on entering into this contract does so on his own behalf and as agent for and on behalf of the Consignee and warrants that he has the authority to do so. The shipper shall be entitled to change the Consignee at any time before delivery of the goods provided he gives the Carrier reasonable notice in writing.
Delivery will be made to the Consignee or his authorised agent on production of reasonable proof of identity (and, in the case of an agent, reasonable proof of authority) without production of this waybill. The Carrier shall be under no liability whatsoever for misdelivery unless caused by the Carrier's negligence.

Onward inland routing (Not part of Carriage as defined in clause 1. For account and risk of Merchant)

Notify Party (see clause 22)

INTERTEAM, S.A. DE C.V.
TAX ID IS: INT961206ES7

Vessel
CLEMENS SCHULTE

Voyage No.
611W

Place of Receipt. Applicable only when document used as Multimodal Waybill

Port of Loading
Hamburg

Port of Discharge
Altamira

Place of Delivery. Applicable only when document used as Multimodal Transport B/L. (see clause 1)

PARTICULARS FURNISHED BY SHIPPER

Kind of Packages; Description of goods; Marks and Numbers; Container No./Seal No.

1 Container Said to Contain 52 PACKAGE

MRSU 679760-2 40/DRY 9'6
14 PALLETS GROSS WEIGHT: 6897.110 KGS MEASUREMENT: 14.457 CBM
FREILACKE
FREILACKE-REFERENCE:
11984015
AS PER ORDER: 1268179
HS-CODE: 32082090,
39119019
UN1263 - 3 - III
UN1866 - 3 - III
UN 1263/CLASS 3/PG III
IMO GROSS WEIGHT: 6091,110
KGS
IMO NET WEIGHT : 5620,000
KGS
UN 1866/CLASS 3/PG III

Weight
18506.345 KGS

Measurement
54.233 CBM

Above particulars as declared by Shipper, but without responsibility of or representation by Carrier.

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

Carrier's Receipt. Total number of containers or packages received by Carrier.

1 container

Place of Issue of Waybill
Hamburg

Shipped on Board Date (Local Time)
2026-03-22

Date Issue of Waybill
2026-03-23

Declared Value Charges (see clause 7.3 of the Maersk Bill of Lading) for Declared Value of US\$

Shipped, as far as ascertained by reasonable means of checking, 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 opposite entitled "Carrier's Receipt"

Signed for the Carrier Maersk A/S

Maersk Deutschland A/S & Co.KG
As Agent(s)

This transport document has one or more numbered pages

IMO GROSS WEIGHT: 524,000
KGS
IMO NET WEIGHT : 500,000
KGS
1 PKG GROSS WEIGHT: 125.000 KGS MEASUREMENT: 1.243 CBM
MOTOR CAR ACCESSORIES
HS-CODE:
870899
HSCODE: 870899
1 PKG GROSS WEIGHT: 53.000 KGS MEASUREMENT: 0.432 CBM
GAS METER
AS PER INVOICE NO.:5348358
HS CODE:90281000
10 PALLETS GROSS WEIGHT: 5430.000 KGS MEASUREMENT: 10.426 CBM
PROTECTIVE COATING, PAINT,
CLEARCOAT
FREILACKE: 12029004
AS PER ORDER: 1269045
HS-CODES: 32082090,
39119019
UN1263 - 3 - III
UN1866 - 3 - III
UN 1263/CLASS 3/PG III
IMO GROSS WEIGHT: 4162,080
KGS
IMO NET WEIGHT : 3840,000
KGS
UN 1866/CLASS 3/PG III
IMO GROSS WEIGHT: 1048,000
KGS
IMO NET WEIGHT : 1000,000
KGS
1 PKG GROSS WEIGHT: 149.500 KGS MEASUREMENT: 1.008 CBM
MOTOR CAR ACCESSORIES
HS-CODE:
870829

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

HSCODE: 870829

9 PKG GROSS WEIGHT: 1150.360 KGS MEASUREMENT: 7.069 CBM

MOTOR CAR ACCESSORIES

HS-CODE:

392690

HSCODE: 392690

8 PKG GROSS WEIGHT: 1340.000 KGS MEASUREMENT: 10.080 CBM

REAR FOG REVERSE LAMP HS

CODE:

851220

HSCODE: 851220

1 PKG GROSS WEIGHT: 1725.820 KGS MEASUREMENT: 5.251 CBM

PROTOLON (SMK)-LWL

HS-CODE: 85446010

6 PACKAGES GROSS WEIGHT: 1206.000 KGS MEASUREMENT: 2.760 CBM

RET DOOR LATSCH STRIKER

REF. 85112024

PO. 6010767385

1 PKG GROSS WEIGHT: 429.555 KGS MEASUREMENT: 1.507 CBM

AUTOMOTIVE SPARE PARTS HS

-CODE: 851290

HSCODE: 851290

EXPRESS RELEASE

MRSU6797602 40 DRY 9'6 52 PACKAGE 18506.345 KGS 54.233 CBM

Shipper Seal : B136264

IMO Class: 3

UN Number: 1263

IMO Class: 3

UN Number: 1866

The Merchant(s) warrant and represent that this shipment and/or Goods will comply at all times with European Union, United States and United Nations sanctions and/or export control laws (Sanctions Laws), and that this shipment and/or Goods do not involve, whether directly or indirectly, any entity or person identified, or owned or controlled by any such entity or person identified, on the U.S. Treasury Departments Office of Foreign Asset

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

Control (OFAC) list of Specially Designated Nationals and Blocked Persons, or any other similar list maintained by the European Union, or as promulgated by the United Nations Security Council (Designated Person). If, in the Carriers reasonable opinion, this shipment and/or Goods are in violation of the Carriers policy on Russia [<https://www.maersk.com/news/articles/2022/02/24/russia-ukraine-situation-update>], Sanctions Laws or involves any Designated Person, the shipment and/or Goods will be returned to the origin at Carriers sole and unfettered discretion, and the Merchant(s) shall indemnify and hold harmless the Carrier, its servants and agents, for any breach of this clause. The Merchant(s) agree that the Carrier may stop the shipment and/or Goods in transit or withhold release of the shipment and/or Goods pending any investigation into compliance with this clause by the Merchant(s).

SHIPPER'S LOAD, STOW, WEIGHT AND COUNT

FREIGHT PREPAID
CY/CY

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

**MAERSK****NON-NEGOTIABLE WAYBILL**

SCAC MAEU

B/L No. 721347509

Shipper (As principal, where "care of", "c/o", or other variants used.)
SACO SHIPPING GMBH
AS AGENT OF SACO SHIPPING LINE LTD
BGM.-SMIDT-STR.128
D-28195 BREMEN
GERMANY / DE118597456

Booking No.
721347509

Export references
6/03/BRE/5271

Svc Contract
299542652

Consignee (Negotiable only if consigned "to order", "to order of" a named Person or "to order of bearer".
As principal, where "care of", "c/o", or other variants used.)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

This contract is subject to the terms, conditions and exceptions, including the law & jurisdiction clause and limitation of liability & declared value clauses, of the current Maersk Bill of Lading (available from the Carrier, its agents and at terms.maersk.com/carriage), which are applicable with logical amendments (mutatis mutandis). To the extent necessary to enable the Consignee to sue and to be sued under this contract, the Shipper on entering into this contract does so on his own behalf and as agent for and on behalf of the Consignee and warrants that he has the authority to do so. The shipper shall be entitled to change the Consignee at any time before delivery of the goods provided he gives the Carrier reasonable notice in writing.
Delivery will be made to the Consignee or his authorised agent on production of reasonable proof of identity (and, in the case of an agent, reasonable proof of authority) without production of this waybill. The Carrier shall be under no liability whatsoever for misdelivery unless caused by the Carrier's negligence.

Onward inland routing (Not part of Carriage as defined in clause 1. For account and risk of Merchant)

Notify Party (see clause 22)

INTERTEAM, S.A. DE C.V.
TAX ID IS: INT961206ES7

Vessel
CLEMENS SCHULTE

Voyage No.
611W

Place of Receipt. Applicable only when document used as Multimodal Waybill

Port of Loading
Hamburg

Port of Discharge
Altamira

Place of Delivery. Applicable only when document used as Multimodal Transport B/L. (see clause 1)

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FREILACKE-REFERENCE:
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AS PER ORDER: 1268179
HS-CODE: 32082090,
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UN1263 - 3 - III
UN1866 - 3 - III
UN 1263/CLASS 3/PG III
IMO GROSS WEIGHT: 6091,110
KGS
IMO NET WEIGHT : 5620,000
KGS
UN 1866/CLASS 3/PG III

Weight
18506.345 KGS

Measurement
54.233 CBM

COPY

Above particulars as declared by Shipper, but without responsibility of or representation by Carrier.

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

Carrier's Receipt. Total number of containers or packages received by Carrier.

1 container

Place of Issue of Waybill
Hamburg

Shipped on Board Date (Local Time)
2026-03-22

Date Issue of Waybill
2026-03-23

Declared Value Charges (see clause 7.3 of the Maersk Bill of Lading) for Declared Value of US\$

Shipped, as far as ascertained by reasonable means of checking, 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 opposite entitled "Carrier's Receipt"

Signed for the Carrier Maersk A/S

This transport document has one or more numbered pages

Maersk Deutschland A/S & Co.KG
As Agent(s)

870829

HSCODE: 870829

9 PKG GROSS WEIGHT: 1150.360 KGS MEASUREMENT: 7.069 CBM

MOTOR CAR ACCESSORIES

HS-CODE:

392690

HSCODE: 392690

8 PKG GROSS WEIGHT: 1340.000 KGS MEASUREMENT: 10.080 CBM

REAR FOG REVERSE LAMP HS

CODE:

851220

HSCODE: 851220

1 PKG GROSS WEIGHT: 1725.820 KGS MEASUREMENT: 5.251 CBM

PROTOLON (SMK)-LWL

HS-CODE: 85446010

6 PACKAGES GROSS WEIGHT: 1206.000 KGS MEASUREMENT: 2.760 CBM

RET DOOR LATSCH STRIKER

REF. 85112024

PO. 6010767385

1 PKG GROSS WEIGHT: 429.555 KGS MEASUREMENT: 1.507 CBM

AUTOMOTIVE SPARE PARTS HS

-CODE: 851290

HSCODE: 851290

EXPRESS RELEASE

MRSU6797602 40 DRY 9'6 52 PACKAGE 18506.345 KGS 54.233 CBM

Shipper Seal : B136264

IMO Class: 3

UN Number: 1263

IMO Class: 3

UN Number: 1866

The Merchant(s) warrant and represent that this shipment and/or Goods will comply at all times with European Union, United States and United Nations sanctions and/or export control laws (Sanctions Laws), and that this shipment and/or Goods do not involve, whether directly or indirectly, any entity or person identified, or owned or controlled by

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §6 GGVSee (IMO-ERKLÄRUNG) TRANSPORT DOCUMENT FOR DANGEROUS GOODS (IMO-DANGEROUS GOODS DECLARATION)

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

Versender (Name & Anschrift) – Shipper (Name & Address) Emil Frei GmbH & Co. KG Am Bahnhof 6 78199 Bräunlingen-Döggingen Germany		Buchungsnummer(n) – Reference number(s) 11984015		Seite 1 von 1	
Empfänger – Consignee TRUMPF México S. de R.L. de C.V. Blvd. Apodaca Technology Park 66600 Apodaca, Nuevo León MEXICO		Beförderer – Carrier			
CONTAINER/FAHRZEUG-PACKZERTIFIKAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Container-/Fahrzeug-Nr.: Container-/Vehicle-No.: Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory SCHNEIDER, NADINE / Emil Frei GmbH & Co. KG Ort und Datum Place and date Bräunlingen-Döggingen 18.02.2026 Unterschrift für den Packer Signature on behalf of packer			
Schiffsname und Nummer der Reise Ship's name and voyage No.		Ladehafen Port of loading		Frei für Text, Anweisungen und sonstige Angaben / Reserved for text, instructions or other matter GBK GmbH Global Regulatory Compliance, 24-hour-Number (001) 352 323 3500 Contract ID: 97659 GBK Gefahrgut Büro GmbH (Germany), +49(0)6132-84463 (24-Hour-Number) NRCC Chinese national emergency hotline for chemical accidents 0086532-83889090	
Löschhafen – Port of discharge					
UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/ Unter- Klasse IMO IMO-Class	Verpack ungsgru ppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations- Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN1263	PAINT	3	III	1268179-1-1,3-1,4-1,5-1	27 Steel Drum 1A2
UN1866	RESIN SOLUTION	3	III	1268179-2-1	20 Plastic Jerrican 3H1
segregation group: none					
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse Net quantity/volume/mass Netto Explosivstoffmasse *** – Net explosive mass ***		Merkblatt-Nr. für Unfall- Maßnahmen EmS No.	Eigenschaften / Properties Flammpunkt / Flashpoint ** MARINE POLLUTANT ** Kontroll- und Notfalltemperatur ** /Control- and emergency temperature **		Güter angeliefert als / Goods delivered as: ☐ Stückgut/Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) Unitized cargo ☐ Bulkverpackungen/Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☐ geschlossen / closed
5620.00 kg N 6091.11 kg G 500.00 kg N 524.00 kg G		F-E, <u>S-E</u> F-E, <u>S-E</u>	24 °C c.c. Transport in accordance with 35 °C c.c. 2.3.2.5 of the IMDG-Code		
* Marken- oder Herstelleramen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL“ vor den Namen setzen; (2) „LEER UNGEREINIGT“ oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN“ hinzufügen; (3) „BEGRENZTE MENGE“ hinzufügen. ** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1; --- * Proprietary/trade names alone are not sufficient. If applicable: (1) the word „WASTE“ should precede the name; (2) „EMPTY UNCLEANED“ or „RESIDUE – LAST CONTAINED“ should be added; (3) „LIMITED QUANTITY“ should be added. ** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;					Zutreffendes ankreuzen / Insert „x“ in appropriate box (Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)
ZUSÄTZLICHE ANGABEN – Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). ADDITIONAL INFORMATION – In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).					
ERKLÄRUNG Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. DECLARATION I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.			Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory SCHNEIDER, NADINE / Emil Frei GmbH & Co. KG Ort und Datum/ Place and date Bräunlingen-Döggingen, 18.02.2026 Unterschrift für den Versender Signature on behalf of shipper		

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: 03NP-V578-2RS7-FF7S

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 STOT SE 3; H336
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9, aromatics
 2-methoxy-1-methylethyl acetate
 n-butyl acetate

Signal word: Warning

Pictograms:

**Hazard statements**

H226 Flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
--------	--

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
128601-23-0	Hydrocarbons, C9, aromatics	10 - < 15 %
	918-668-5 01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411	
108-65-6	2-methoxy-1-methylethyl acetate	5 - < 10 %
	203-603-9 607-195-00-7 01-2119475791-29	
	Flam. Liq. 3, STOT SE 3; H226 H336	
1330-20-7	xylene	5 - < 10 %
	215-535-7 601-022-00-9 01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304	
123-86-4	n-butyl acetate	1 - < 5 %
	204-658-1 607-025-00-1 01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066	
100-41-4	ethylbenzene	1 - < 5 %
	202-849-4 601-023-00-4 01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304	
84418-68-8	Neodecanoic acid, zinc salt, basic	< 1 %
	282-780-4 01-2120770060-67	
	Aquatic Acute 1, Aquatic Chronic 2; H400 H411	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1332-58-7	Kaolin respirable dust	-	2		TWA (8 h)	WEL
1317-65-3	Limestone, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL
1317-65-3	Marble, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Marble, total inhalable	-	10		TWA (8 h)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
108-65-6	2-methoxy-1-methylethyl acetate			
Worker DNEL, long-term		inhalation	systemic	275 mg/m³
Worker DNEL, long-term		dermal	systemic	153,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	33 mg/m³
Consumer DNEL, long-term		dermal	systemic	54,8 mg/kg bw/day
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Marine water		0,0635 mg/l
Freshwater sediment		3,29 mg/kg
Marine sediment		0,329 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,29 mg/kg
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

Breakthrough time:: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

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Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	100-200 °C	
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C -	
Auto-ignition temperature:	>200 °C	
pH-Value (at 20 °C):		
Vapour pressure:	5-14 hPa	
(at 20 °C)		
Vapour pressure:	47,2 hPa	
(at 50 °C)		
Density (at 20 °C):	1,322 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	32,03 %
Solid content:	67,97 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition productsNitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide**SECTION 11: Toxicological information**

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11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

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Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 1263

14.2. UN proper shipping name:

PAINT

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

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Classification code:	F1
Special Provisions:	163 367 650
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1263
14.2. UN proper shipping name:	PAINT
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	163 223 367 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1263
14.2. UN proper shipping name:	PAINT
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	A3 A72 A192
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 0,96 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 31,88 % (421,447 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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

1.1. Product identifier

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UFI: T2EK-753S-7RSP-URCM

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

Use of the substance/mixture

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226
 STOT SE 3; H335
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C9, aromatics
 xylene

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			15 - < 20 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
112-07-2	2-butoxyethyl acetate			1 - < 5 %
	203-933-3	607-038-00-2	01-2119475112-47	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	
112-07-2	203-933-3	2-butoxyethyl acetate	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1480 mg/kg; oral: LD50 = 1880 mg/kg	

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
112-07-2	2-butoxyethyl acetate			
Worker DNEL, acute		dermal	systemic	102 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	775 mg/m³
Worker DNEL, acute		inhalation	local	333 mg/m³
Worker DNEL, long-term		dermal	systemic	102 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	133 mg/m³
Consumer DNEL, acute		dermal	systemic	27 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	499 mg/m³
Consumer DNEL, acute		oral	systemic	18 mg/kg bw/day

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Consumer DNEL, acute	inhalation	local	166 mg/m ³
Consumer DNEL, long-term	dermal	systemic	36 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	67 mg/m ³
Consumer DNEL, long-term	oral	systemic	4,3 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
112-07-2	2-butoxyethyl acetate	
Freshwater		0,304 mg/l
Marine water		0,0304 mg/l
Freshwater sediment		2,03 mg/kg
Marine sediment		0,203 mg/kg
Secondary poisoning		0,06 mg/kg
Micro-organisms in sewage treatment plants (STP)		90 mg/l
Soil		0,68 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

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Breakthrough time: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	100-200 °C	
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C -	
Auto-ignition temperature:	415 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	5-14 hPa	
(at 20 °C)		
Vapour pressure:	47,2 hPa	
(at 50 °C)		
Density (at 20 °C):	1,515 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	30,39 %
Solid content:	69,61 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

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10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			
112-07-2	2-butoxyethyl acetate				
	oral	LD50 1880 mg/kg	Rat	Manufacturer	
	dermal	LD50 1480 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

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Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

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Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 650

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 30

Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: 163 223 367 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3 A72 A192

Limited quantity Passenger: 10 L

Passenger LQ: Y344

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Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 0,8 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 30,392 % (460,439 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,9,15.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: HRDK-65C6-0RSQ-6D1C

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 STOT SE 3; H335
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9, aromatics
 xylene

Signal word: Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			10 - < 15 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
112-07-2	2-butoxyethyl acetate			1 - < 5 %
	203-933-3	607-038-00-2	01-2119475112-47	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	
112-07-2	203-933-3	2-butoxyethyl acetate	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1480 mg/kg; oral: LD50 = 1880 mg/kg	

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1317-65-3	Limestone, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL
1317-65-3	Marble, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Marble, total inhalable	-	10		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
112-07-2	2-butoxyethyl acetate			
Worker DNEL, acute		dermal	systemic	102 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	775 mg/m³
Worker DNEL, acute		inhalation	local	333 mg/m³
Worker DNEL, long-term		dermal	systemic	102 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	133 mg/m³
Consumer DNEL, acute		dermal	systemic	27 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	499 mg/m³
Consumer DNEL, acute		oral	systemic	18 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	166 mg/m³
Consumer DNEL, long-term		dermal	systemic	36 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	67 mg/m³
Consumer DNEL, long-term		oral	systemic	4,3 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day

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Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
112-07-2	2-butoxyethyl acetate	
Freshwater		0,304 mg/l
Marine water		0,0304 mg/l
Freshwater sediment		2,03 mg/kg
Marine sediment		0,203 mg/kg
Secondary poisoning		0,06 mg/kg
Micro-organisms in sewage treatment plants (STP)		90 mg/l
Soil		0,68 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

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Breakthrough time: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	100-200 °C	
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C -	
Auto-ignition temperature:	415 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	5-14 hPa	
(at 20 °C)		
Density (at 20 °C):	1,571 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	27,09 %
Solid content:	72,91 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

No further relevant information available.

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10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			
112-07-2	2-butoxyethyl acetate				
	oral	LD50 1880 mg/kg	Rat	Manufacturer	
	dermal	LD50 1480 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

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FreiLacke

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 650

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 30

Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: 163 223 367 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3 A72 A192

Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

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IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 0,8 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 27,087 % (425,533 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 9.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

GS9141MT1753 - EFDEDUR-System-Structure Coating, RAL9005 Jet black

UFI: XVXP-J5WG-YRSN-VCP4

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 STOT SE 3; H335 H336
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9, aromatics
 n-butyl acetate
 xylene

Signal word: Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			15 - < 20 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
123-86-4	n-butyl acetate			5 - < 10 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
84418-68-8	Neodecanoic acid, zinc salt, basic			< 1 %
	282-780-4		01-2120770060-67	
	Aquatic Acute 1, Aquatic Chronic 2; H400 H411			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

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Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.
After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Hazardous decomposition products: carbon black. Health hazard.
Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Safe handling: see section 7
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal. Disposal: see section 13

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Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
1333-86-4	Carbon black	-	3.5		TWA (8 h)	WEL
		-	7		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1317-65-3	Limestone, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL
1317-65-3	Marble, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Marble, total inhalable	-	10		TWA (8 h)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

Breakthrough time:: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
Boiling point or initial boiling point and boiling range:	100-200 °C	Remark
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C	-
Auto-ignition temperature:	415 °C	
pH-Value (at 23 °C):	not applicable	-
Vapour pressure:	15 hPa	
(at 20 °C)		
Vapour pressure:	47,2 hPa	
(at 50 °C)		
Density (at 20 °C):	1,303 g/cm³	

9.2. Other information

Other safety characteristics

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	34,22 %
Solid content:	65,78 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

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Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 1263

14.2. UN proper shipping name:

PAINT

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Classification code:

F1

Special Provisions:

163 367 650

Limited quantity:

5 L

Excepted quantity:

E1

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Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: 163 223 367 955
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: A3 A72 A192
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to

Safety Data Sheet

according to UK REACH Regulation

GS9141MT1753 - EFDEDUR-System-Structure Coating, RAL9005 Jet black

Revision: 06.12.2025

Item No.: GS9141MT1753

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Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 1 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 34,178 % (445,338 g/l)

emissions:

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 9.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

HU0010 - EFDEDUR-Hardener, transparent

UFI: 21WK-Y413-WU9C-7JGS

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 Acute Tox. 4; H332
 Skin Sens. 1; H317
 STOT SE 3; H335 H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hexamethylen-1,6-diisocyanat Homopolymer
 n-butyl acetate
 hexamethylene-di-isocyanate

Signal word: Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
28182-81-2	Hexamethylen-1,6-diisocyanat Homopolymer			70 - < 75 %
	500-060-2		01-2119485796-17	
	Acute Tox. 4, Skin Sens. 1, STOT SE 3; H332 H317 H335			
123-86-4	n-butyl acetate			25 - < 30 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
822-06-0	hexamethylene-di-isocyanate			< 0.5 %
	212-485-8	615-011-00-1	01-2119457571-37	
	Acute Tox. 1, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H330 H302 H315 H319 H334 H317 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
28182-81-2	500-060-2	Hexamethylen-1,6-diisocyanat Homopolymer	70 - < 75 %
		inhalation: LC50 = 1,5 mg/l (dusts or mists)	
822-06-0	212-485-8	hexamethylene-di-isocyanate	< 0.5 %
		inhalation: LC50 = 0,124 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); oral: ATE = 500 mg/kg Resp. Sens. 1; H334: >= 0,5 - 100 Skin Sens. 1; H317: >= 0,5 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

- When in doubt or if symptoms are observed, get medical advice.
- Never give anything by mouth to an unconscious person or a person with cramps.
- If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

- Remove casualty to fresh air and keep warm and at rest.

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If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

The contaminated area should be cleaned up immediately with:

a mixture of 45% water, 50% ethanol or isopropyl alcohol, 5% concentrated ammonia solution (density 0.880) (Flammable)

Other:

a mixture of 95% water and 5% sodium carbonate (Non-flammable.)

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Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

Avoid release to the environment. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)". Use only antistatically equipped (spark-free) tools.

Never use pressure to empty container. Handle and open container with care. Keep/Store only in original container. Do not allow to enter into surface water or drains. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Harmful dust is produced during dry-state pulverisation. Do not subject to grinding. (Avoid dust formation.) If possible, dampen before cutting or drilling. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Draw up and observe skin protection programme.

Further information on handling

Conditions to avoid: Avoid contact with water. - Protect from moisture.

Carbon dioxide (CO₂) (chemical identity of the evolved gas). Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali, Amines, Water

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking.

Store in a place accessible by authorized persons only.

Always close containers tightly after the removal of product.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day

PNEC values

CAS No	Substance	Value
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg

Additional advice on limit values

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Safety precautions for operators (SPo): Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

Breakthrough time: > 480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing (Natural fibres (e.g. cotton) / heat-resistant synthetic fibres)

Respiratory protection

Provide adequate ventilation. Combination filtering device.

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Self-contained respirator (breathing apparatus).

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	-	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	>120 °C	
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	35,0 °C -	
Auto-ignition temperature:	>350 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	15 hPa	
(at 20 °C)		
Vapour pressure:	58 hPa	
(at 50 °C)		
Density (at 20 °C):	1,07 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	25,00 %
Solid content:	75,00 %
Flow time:	<40 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity

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10.1. Reactivity

Decomposes in contact with water. Carbon dioxide (CO₂) (chemical identity of the evolved gas)

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Keep away from: Oxidizing agent, Amines, Alcohols, Water, Strong alkali, Strong acid

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Closed containers may burst when pressure and temperature rise.

10.4. Conditions to avoid

In case of fire: May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

Exothermic reaction with: Alcohols, Amines

10.6. Hazardous decomposition products

carbon black, Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Isocyanates, Amines, Alcohols, Hydrogen cyanide (hydrocyanic acid)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 2,004 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
28182-81-2	Hexamethylen-1,6-diisocyanat Homopolymer				
	inhalation (4 h) dust/mist	LC50 1,5 mg/l			
822-06-0	hexamethylene-di-isocyanate				
	oral	ATE mg/kg 500			
	inhalation vapour	LC50 mg/l 0,124			
	inhalation dust/mist	ATE mg/l 0,005			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Irritating to skin.

Sensitising effects

May cause an allergic skin reaction. (Hexamethylen-1,6-diisocyanat Homopolymer; hexamethylene-di-isocyanate)

Contains isocyanates. May produce an allergic reaction.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Hexamethylen-1,6-diisocyanat Homopolymer)

May cause drowsiness or dizziness. (n-butyl acetate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Contains isocyanates. May produce an allergic reaction. Respiratory or skin sensitisation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Suitable material for diluting or neutralizing: SECTION 6: Accidental release measures

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Classification code:	F1
Special Provisions:	640E
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	223 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3

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FreiLacke**HU0010 - EFDEDUR-Hardener, transparent**

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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 74, Entry 75

Directive 2010/75/EU on industrial emissions: 25 % (267,5 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled .
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Shipper
GEBRUDER WEISS GMBH
ZWEIGNIEDERLASSUNG
FAULENSTRASSE 2-12
VAT ID: DE217767729
28195 BREMEN
GERMANY

B/L No.
ALM257796



SACO SHIPPING LINE LTD

Consigned to order of
SCHRYVER TRANSPORTES Y LOGISTICA SA DE
CV
CALZADA ZA VALETA 3920- INT. 4 PISO L2
COL. SANTA CRUZ BUENAVISTA, ZIP CODE
72150
PUEBLA, PUEBLA, MEXICO.
RFC:STL0303078W0

Notify Party and address
SCHRYVER TRANSPORTES Y LOGISTICA SA DE
CV
CALZADA ZA VALETA 3920- INT. 4 PISO L2
COL. SANTA CRUZ BUENAVISTA, ZIP CODE
72150
PUEBLA, PUEBLA, MEXICO.
RFC:STL0303078W0

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

6/03/BRE/527101

Copy

		Place of receipt				
		HAMBURG CFS				
Ocean vessel	Port of loading					
CLEMENS SCHULTE	HAMBURG					
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading			
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO			
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³	
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 22.03.2026

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
TRUMPF MEXICO S. DE R.L. DE C.V. BLVD. APODACA TECHNOLOGY PARK BLVD. APODACA #201 66600 APODACA, NUEVO LEON MEXIKO	14 PALLETS	FREILACKE FREILACKE-REFERENCE: 11984015 AS PER ORDER: 1268179 HS-CODE: 32082090, 39119019 UN1263 - 3 - III UN1866 - 3 - III UN 1263/CLASS 3/PG III IMO GROSS WEIGHT: 6091,110 KGS IMO NET WEIGHT : 5620,000 KGS UN 1866/CLASS 3/PG III IMO GROSS WEIGHT: 524,000 KGS IMO NET WEIGHT : 500,000 KGS		6897,110	14,457
STOWED INTO CONTAINER NO.: MRSU6797602				SEAL : B136264	
TOTAL	14 PALLETS			6897,110 KGS	14,457 CBM

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

B/L No.
ALM257829



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

6/03/BRE/527102

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
SAME AS CONSIGNEE

		Place of receipt HAMBURG CFS	
Ocean vessel CLEMENS SCHULTE		Port of loading HAMBURG, GERMANY	
Port of discharge ALTAMIRA MEXICO		Place of delivery ALTAMIRA CFS	Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. PO LIGHTING MX DN: 294690	Quantity of Goods 1 PALLET	Description of Goods MOTOR CAR ACCESSORIES HS-CODE: 870899 **HSCODE: 870899**	Gross weight, kg. 125,000
			Measurement, m ³ 1,243
STOWED INTO CONTAINER NO.: MRSU6797602			SEAL : B136264
PO LIGHTING MEXICO S. DE R.L. DE C.V. DN: GTI26/000333	1 PALLET	MOTOR CAR ACCESSORIES HS-CODE: 870829 **HSCODE: 870829**	149,500
			1,008
STOWED INTO CONTAINER NO.: MRSU6797602			SEAL : B136264
PO LIGHTING MEXICO REF: 4276721	1 PALLET	AUTOMOTIVE SPARE PARTS HS -CODE: 851290 **HSCODE: 851290**	429,555
			1,507
STOWED INTO CONTAINER NO.: MRSU6797602			SEAL : B136264
TOTAL		3 PALLET	704,055 KGS
			3,758 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;

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



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Shipper

CEVA FREIGHT GERMANY GMBH
AS AGENTS FOR PYRAMID LINES SINGAPORE
PTE. LTD JOHANN-REINERS-PLATZ 3
BREMEN 28217 GERMANY
EORI+DE2030276

B/L No.
ALM257863



SACO SHIPPING LINE LTD

Consigned to order of

CEVA A&O MEXICO SA DE CV
AS AGENTS FOR PYRAMID LINES SINGAPORE
PTE. LTD. AV. INSURGENTES SUR 1079 PISO
22 23 BENITO JUAREZ
CIUDAD DE MEXICO CMX 3720 MEXICO
RFC+SME980702916

Notify Party and address

SAME AS CONSIGNEE

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

6/03/BRE/527103

Copy

		Place of receipt BREMEN CFS	
Ocean vessel CLEMENS SCHULTE		Port of loading HAMBURG	
Port of discharge ALTAMIRA, MEXICO	Place of delivery SAN LUIS POTOSI DAP		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. ELSTER AMCO DE MEXICO 41092611-10 DN# 21733136	Quantity of Goods 1 PACKAGE	Description of Goods GAS METER	Said to contain Gross weight, kg. 53,000 Measurement, m ³ 0,432
		AS PER INVOICE NO.: 5348358 HS CODE: 90281000	
STOWED INTO CONTAINER NO.: MRSU6797602		SEAL : B136264	

TOTAL

1 PACKAGE

53,000 KGS

0,432 CBM

FREIGHT PREPAID UPTO DAP – SHIPPED ON BOARD – EXPRESS B/L

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



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER
nach §6 GGVSee (IMO-ERKLÄRUNG)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS
(IMO-DANGEROUS GOODS DECLARATION)

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

Versender (Name & Anschrift) – Shipper (Name & Address) Emil Frei GmbH & Co. KG Am Bahnhof 6 78199 Bräunlingen-Döggingen Germany		Buchungsnummer(n) – Reference number(s) 12029004		Seite 1 von 1	
Empfänger – Consignee TRUMPF México S. de R.L. de C.V. Blvd. Apodaca Technology Park 66600 Apodaca, Nuevo León MEXIKO		Beförderer – Carrier			
CONTAINER/FAHRZEUG-PACKZERTIFIKAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Container-/Fahrzeug-Nr.: Container-/Vehicle-No.: Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory SCHNEIDER, NADINE / Emil Frei GmbH & Co. KG Ort und Datum Place and date Bräunlingen-Döggingen 25.02.2026 Unterschrift für den Packer Signature on behalf of packer			
Schiffsname und Nummer der Reise Ship's name and voyage No.		Ladehafen Port of loading		Frei für Text, Anweisungen und sonstige Angaben /Reserved for text, instructions or other matter GBK GmbH Global Regulatory Compliance, 24-hour-Number (001) 352 323 3500 Contract ID: 97659 GBK Gefahrgut Büro GmbH (Germany), +49(0)6132-84463 (24-Hour-Number) NRCC Chinese national emergency hotline for chemical accidents 0086532-83889090	
Löschhafen – Port of discharge					
UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/ Unter- Klasse IMO IMO-Class	Verpack ungsgru ppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations- Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN1263	PAINT	3	III	16 Steel Drum 1A2	1269045-1-1, 3-1, 4-1
UN1866	RESIN SOLUTION	3	III	40 Plastic Jerrican 3H1	1269045-2-1
			segregation group: none		
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse Net quantity/volume/mass Netto Explosivstoffmasse *** – Net explosive mass ***		Merkblatt-Nr. für Unfall- Maßnahmen EmS No.	Eigenschaften / Properties Flammpunkt / Flashpoint ** MARINE POLLUTANT ** Kontroll- und Notfalltemperatur ** /Control- and emergency temperature **		Güter angeliefert als / Goods delivered as: ☐ Stückgut/Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) Unitized cargo ☐ Bulkverpackungen/Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☐ geschlossen / closed
3840.00 kg N 4162.08 kg G 1000.00 kg N 1048.00 kg G		F-E, S-E F-E, S-E	24 °C c.c. Transport in accordance with 2.3.2.5 of the IMDG-Code 35 °C c.c.		
* Marken- oder Herstelleramen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL“ vor den Namen setzen; (2) „LEER UNGEREINIGT“ oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN“ hinzufügen; (3) „BEGRENZTE MENGE“ hinzufügen. ** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1; -- * Proprietary/trade names alone are not sufficient. If applicable: (1) the word „WASTE“ should precede the name; (,) „EMPTY UNCLEANED“ or „RESIDUE – LAST CONTAINED“ should be added; (3) „LIMITED QUANTITY“ should be added. ** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;					Zutreffendes ankreuzen / Insert „x“ in appropriate box (Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)
ZUSÄTZLICHE ANGABEN – Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). ADDITIONAL INFORMATION – In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).					
ERKLÄRUNG Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. DECLARATION I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.			Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory SCHNEIDER, NADINE / Emil Frei GmbH & Co. KG Ort und Datum/ Place and date Bräunlingen-Döggingen, 25.02.2026 Unterschrift für den Versender Signature on behalf of shipper		

Safety Data Sheet

according to UK REACH Regulation



GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

Revision: 06.12.2025

Item No.: GS9141HT2027

Page 1 of 13

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

1.1. Product identifier

GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

UFI: T2EK-753S-7RSP-URCM

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

Use of the substance/mixture

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226
 STOT SE 3; H335
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C9, aromatics
 xylene

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Safety Data Sheet



according to UK REACH Regulation

GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

Revision: 06.12.2025

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Page 2 of 13

P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			15 - < 20 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
112-07-2	2-butoxyethyl acetate			1 - < 5 %
	203-933-3	607-038-00-2	01-2119475112-47	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	
112-07-2	203-933-3	2-butoxyethyl acetate	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1480 mg/kg; oral: LD50 = 1880 mg/kg	

SECTION 4: First aid measures

Safety Data Sheet

according to UK REACH Regulation



GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

Revision: 06.12.2025

Item No.: GS9141HT2027

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4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to UK REACH Regulation



GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

Revision: 06.12.2025

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Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to UK REACH Regulation

**GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20**

Revision: 06.12.2025

Item No.: GS9141HT2027

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

Safety Data Sheet



according to UK REACH Regulation

GS9141HT2027 - EFDEDUR-System-Structure Coating, blue RDS 250 20 20

Revision: 06.12.2025

Item No.: GS9141HT2027

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
112-07-2	2-butoxyethyl acetate			
Worker DNEL, acute		dermal	systemic	102 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	775 mg/m³
Worker DNEL, acute		inhalation	local	333 mg/m³
Worker DNEL, long-term		dermal	systemic	102 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	133 mg/m³
Consumer DNEL, acute		dermal	systemic	27 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	499 mg/m³
Consumer DNEL, acute		oral	systemic	18 mg/kg bw/day

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Consumer DNEL, acute	inhalation	local	166 mg/m³
Consumer DNEL, long-term	dermal	systemic	36 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	67 mg/m³
Consumer DNEL, long-term	oral	systemic	4,3 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
112-07-2	2-butoxyethyl acetate	
Freshwater		0,304 mg/l
Marine water		0,0304 mg/l
Freshwater sediment		2,03 mg/kg
Marine sediment		0,203 mg/kg
Secondary poisoning		0,06 mg/kg
Micro-organisms in sewage treatment plants (STP)		90 mg/l
Soil		0,68 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

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Breakthrough time: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	100-200 °C	
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C -	
Auto-ignition temperature:	415 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	5-14 hPa	
(at 20 °C)		
Vapour pressure:	47,2 hPa	
(at 50 °C)		
Density (at 20 °C):	1,515 g/cm³	

9.2. Other information

Other safety characteristics

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	30,39 %
Solid content:	69,61 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

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10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			
112-07-2	2-butoxyethyl acetate				
	oral	LD50 1880 mg/kg	Rat	Manufacturer	
	dermal	LD50 1480 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

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Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

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Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 650

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 30

Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: 163 223 367 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3 A72 A192

Limited quantity Passenger: 10 L

Passenger LQ: Y344

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Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 0,8 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 30,392 % (460,439 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,9,15.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: HRDK-65C6-0RSQ-6D1C

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 STOT SE 3; H335
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9, aromatics
 xylene

Signal word: Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			10 - < 15 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
112-07-2	2-butoxyethyl acetate			1 - < 5 %
	203-933-3	607-038-00-2	01-2119475112-47	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	
112-07-2	203-933-3	2-butoxyethyl acetate	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1480 mg/kg; oral: LD50 = 1880 mg/kg	

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1317-65-3	Limestone, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL
1317-65-3	Marble, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Marble, total inhalable	-	10		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m³
1330-20-7	xylene			
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Consumer DNEL, acute		inhalation	systemic	174 mg/m³
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m³
Worker DNEL, acute		inhalation	local	293 mg/m³
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m³
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
112-07-2	2-butoxyethyl acetate			
Worker DNEL, acute		dermal	systemic	102 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	775 mg/m³
Worker DNEL, acute		inhalation	local	333 mg/m³
Worker DNEL, long-term		dermal	systemic	102 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	133 mg/m³
Consumer DNEL, acute		dermal	systemic	27 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	499 mg/m³
Consumer DNEL, acute		oral	systemic	18 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	166 mg/m³
Consumer DNEL, long-term		dermal	systemic	36 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	67 mg/m³
Consumer DNEL, long-term		oral	systemic	4,3 mg/kg bw/day
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day

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Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
112-07-2	2-butoxyethyl acetate	
Freshwater		0,304 mg/l
Marine water		0,0304 mg/l
Freshwater sediment		2,03 mg/kg
Marine sediment		0,203 mg/kg
Secondary poisoning		0,06 mg/kg
Micro-organisms in sewage treatment plants (STP)		90 mg/l
Soil		0,68 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

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Breakthrough time: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	See section 1	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	100-200 °C	
Lower explosion limits:	0,8 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	24,0 °C -	
Auto-ignition temperature:	415 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	5-14 hPa	
(at 20 °C)		
Density (at 20 °C):	1,571 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	27,09 %
Solid content:	72,91 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

No further relevant information available.

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10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			
112-07-2	2-butoxyethyl acetate				
	oral	LD50 1880 mg/kg	Rat	Manufacturer	
	dermal	LD50 1480 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 367 650
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: 163 223 367 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3 A72 A192
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L

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IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 0,8 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 27,087 % (425,533 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: XVXP-J5WG-YRSN-VCP4

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226
 STOT SE 3; H335 H336
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9, aromatics
 n-butyl acetate
 xylene

Signal word: Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	Classification (GB CLP Regulation)			
128601-23-0	Hydrocarbons, C9, aromatics			15 - < 20 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411			
123-86-4	n-butyl acetate			5 - < 10 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
84418-68-8	Neodecanoic acid, zinc salt, basic			< 1 %
	282-780-4		01-2120770060-67	
	Aquatic Acute 1, Aquatic Chronic 2; H400 H411			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	5 - < 10 %
		inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 14 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

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Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.
After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Hazardous decomposition products: carbon black. Health hazard.
Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Safe handling: see section 7
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal. Disposal: see section 13

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Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product. Remark

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
1333-86-4	Carbon black	-	3.5		TWA (8 h)	WEL
		-	7		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1317-65-3	Limestone, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL
1317-65-3	Marble, respirable	-	4		TWA (8 h)	WEL
1317-65-3	Marble, total inhalable	-	10		TWA (8 h)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
128601-23-0	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³	
123-86-4	n-butyl acetate			
Worker DNEL, acute	inhalation	local	600 mg/m ³	
Worker DNEL, long-term	inhalation	local	300 mg/m ³	
Consumer DNEL, acute	inhalation	local	300 mg/m ³	
Consumer DNEL, long-term	inhalation	local	35,7 mg/m ³	
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	11 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day	
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day	
1330-20-7	xylene			
Worker DNEL, acute	inhalation	systemic	289 mg/m ³	
Worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	77 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	174 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	108 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	14,8 mg/m ³	
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day	
100-41-4	ethylbenzene			
Worker DNEL, long-term	inhalation	systemic	77 mg/m ³	
Worker DNEL, acute	inhalation	local	293 mg/m ³	
Worker DNEL, long-term	dermal	systemic	180 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	15 mg/m ³	
Consumer DNEL, long-term	oral	systemic	1,6 mg/kg bw/day	

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PNEC values

CAS No	Substance	
Environmental compartment		Value
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

Breakthrough time:: >480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	See section 1
Odour:	like: Solvent

	Remark
Boiling point or initial boiling point and boiling range:	100-200 °C
Lower explosion limits:	0,8 vol. %
Upper explosion limits:	7,5 vol. %
Flash point:	24,0 °C -
Auto-ignition temperature:	415 °C
pH-Value (at 23 °C):	not applicable -
Vapour pressure:	15 hPa
(at 20 °C)	
Vapour pressure:	47,2 hPa
(at 50 °C)	
Density (at 20 °C):	1,303 g/cm³

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	34,22 %
Solid content:	65,78 %
Flow time:	>60 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition productsNitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	oral	LD50 14 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	Manufacturer	
	dermal	LD50 15400 mg/kg	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat	Manufacturer	
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

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Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 1263

14.2. UN proper shipping name:

PAINT

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Classification code:

F1

Special Provisions:

163 367 650

Limited quantity:

5 L

Excepted quantity:

E1

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Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Other applicable information (land transport)

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: 163 223 367 955
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-E

Other applicable information (marine transport)

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: A3 A72 A192
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75, Entry 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to

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Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 1 %: Polypropylene).

Directive 2010/75/EU on industrial emissions: 34,178 % (445,338 g/l)

emissions:

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 9.

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	For use in industrial installations only.	-	-	-	-	-	-	-	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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

1.1. Product identifier

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UFI: 21WK-Y413-WU9C-7JGS

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

Use of the substance/mixture

For use in industrial installations only.

1.3. Details of the supplier of the safety data sheet

Company name: Emil Frei GmbH & Co. KG
 Street: Am Bahnhof 6
 Place: D-78199 Bräunlingen/ GERMANY
 Telephone: +49(0)7707/151-0
 E-mail: info@freilacke.de
 Contact person: Produktsicherheit
 E-mail: prodsi@freilacke.de
 Internet: www.freilacke.de

1.4. Emergency telephone number:

GBK Gefahrgut Büro GmbH, +49(0)6132-84463 (24-Hour-Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226
 Acute Tox. 4; H332
 Skin Sens. 1; H317
 STOT SE 3; H335 H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hexamethylen-1,6-diisocyanat Homopolymer
 n-butyl acetate
 hexamethylene-di-isocyanate

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
28182-81-2	Hexamethylen-1,6-diisocyanat Homopolymer			70 - < 75 %
	500-060-2		01-2119485796-17	
	Acute Tox. 4, Skin Sens. 1, STOT SE 3; H332 H317 H335			
123-86-4	n-butyl acetate			25 - < 30 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
822-06-0	hexamethylene-di-isocyanate			< 0.5 %
	212-485-8	615-011-00-1	01-2119457571-37	
	Acute Tox. 1, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H330 H302 H315 H319 H334 H317 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
28182-81-2	500-060-2	Hexamethylen-1,6-diisocyanat Homopolymer	70 - < 75 %
		inhalation: LC50 = 1,5 mg/l (dusts or mists)	
822-06-0	212-485-8	hexamethylene-di-isocyanate	< 0.5 %
		inhalation: LC50 = 0,124 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); oral: ATE = 500 mg/kg Resp. Sens. 1; H334: >= 0,5 - 100 Skin Sens. 1; H317: >= 0,5 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

- When in doubt or if symptoms are observed, get medical advice.
- Never give anything by mouth to an unconscious person or a person with cramps.
- If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

- Remove casualty to fresh air and keep warm and at rest.

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If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

The contaminated area should be cleaned up immediately with:

a mixture of 45% water, 50% ethanol or isopropyl alcohol, 5% concentrated ammonia solution (density 0.880) (Flammable)

Other:

a mixture of 95% water and 5% sodium carbonate (Non-flammable.)

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Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

Avoid release to the environment. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)". Use only antistatically equipped (spark-free) tools.

Never use pressure to empty container. Handle and open container with care. Keep/Store only in original container. Do not allow to enter into surface water or drains. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Harmful dust is produced during dry-state pulverisation. Do not subject to grinding. (Avoid dust formation.) If possible, dampen before cutting or drilling. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Draw up and observe skin protection programme.

Further information on handling

Conditions to avoid: Avoid contact with water. - Protect from moisture.

Carbon dioxide (CO₂) (chemical identity of the evolved gas). Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali, Amines, Water

Further information on storage conditions

Follow the instructions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking.

Store in a place accessible by authorized persons only.

Always close containers tightly after the removal of product.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day

PNEC values

CAS No	Substance	Value
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg

Additional advice on limit values

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Safety precautions for operators (SPo): Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: FKM (fluoro rubber)

Breakthrough time: > 480 min.

Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing (Natural fibres (e.g. cotton) / heat-resistant synthetic fibres)

Respiratory protection

Provide adequate ventilation. Combination filtering device.

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Self-contained respirator (breathing apparatus).

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	-	
Odour:	like: Solvent	
		Remark
Boiling point or initial boiling point and boiling range:	>120 °C	
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	35,0 °C -	
Auto-ignition temperature:	>350 °C	
pH-Value (at 23 °C):	not applicable -	
Vapour pressure:	15 hPa	
(at 20 °C)		
Vapour pressure:	58 hPa	
(at 50 °C)		
Density (at 20 °C):	1,07 g/cm³	

9.2. Other information**Other safety characteristics**

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	25,00 %
Solid content:	75,00 %
Flow time:	<40 6 mm
(at 23 °C)	

SECTION 10: Stability and reactivity

Safety Data Sheet

according to UK REACH Regulation



HU0010 - EFDEDUR-Hardener, transparent

Revision: 06.05.2024

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10.1. Reactivity

Decomposes in contact with water. Carbon dioxide (CO₂) (chemical identity of the evolved gas)

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Keep away from: Oxidizing agent, Amines, Alcohols, Water, Strong alkali, Strong acid

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Closed containers may burst when pressure and temperature rise.

10.4. Conditions to avoid

In case of fire: May form hazardous decomposition products when exposed to high temperatures.

10.5. Incompatible materials

Exothermic reaction with: Alcohols, Amines

10.6. Hazardous decomposition products

carbon black, Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Isocyanates, Amines, Alcohols, Hydrogen cyanide (hydrocyanic acid)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 2,004 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
28182-81-2	Hexamethylen-1,6-diisocyanat Homopolymer				
	inhalation (4 h) dust/mist	LC50 1,5 mg/l			
822-06-0	hexamethylene-di-isocyanate				
	oral	ATE mg/kg 500			
	inhalation vapour	LC50 mg/l 0,124			
	inhalation dust/mist	ATE mg/l 0,005			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Irritating to skin.

Sensitising effects

May cause an allergic skin reaction. (Hexamethylen-1,6-diisocyanat Homopolymer; hexamethylene-di-isocyanate)

Contains isocyanates. May produce an allergic reaction.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Safety Data Sheet

according to UK REACH Regulation



HU0010 - EFDEDUR-Hardener, transparent

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Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Hexamethylen-1,6-diisocyanat Homopolymer)

May cause drowsiness or dizziness. (n-butyl acetate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Contains isocyanates. May produce an allergic reaction. Respiratory or skin sensitisation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Dizziness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

11.2. Information on other hazards

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

Safety Data Sheet

according to UK REACH Regulation



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Suitable material for diluting or neutralizing: SECTION 6: Accidental release measures

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Classification code:	F1
Special Provisions:	640E
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	223 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3

Safety Data Sheet

according to UK REACH Regulation

FreiLacke

HU0010 - EFDEDUR-Hardener, transparent

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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 74, Entry 75

Directive 2010/75/EU on industrial emissions: 25 % (267,5 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Safety Data Sheet

according to UK REACH Regulation

**HU0010 - EFDEDUR-Hardener, transparent**

Revision: 06.05.2024

Item No.: HU0010

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H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled .
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Shipper
GEBRUDER WEISS GMBH
ZWEIGNIEDERLASSUNG
FAULENSTRASSE 2-12
VAT ID: DE217767729
28195 BREMEN
GERMANY

B/L No.
ALM257864



SACO SHIPPING LINE LTD

Consigned to order of
SCHRYVER TRANSPORTES Y LOGISTICA SA DE
CV
CALZADA ZAVALA 3920- INT. 4 PISO L2
COL. SANTA CRUZ BUENAVISTA, ZIP CODE
72150PUEBLA, PUEBLA, MEXICO.
RFC:STL0303078W0

Notify Party and address
SCHRYVER TRANSPORTES Y LOGISTICA SA DE
CV
CALZADA ZAVALA 3920- INT. 4 PISO L2
COL. SANTA CRUZ BUENAVISTA, ZIP CODE
72150PUEBLA, PUEBLA, MEXICO.
RFC:STL0303078W0

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

6/03/BRE/527104

Copy

		Place of receipt				
		HAMBURG CFS				
Ocean vessel	Port of loading					
CLEMENS SCHULTE	HAMBURG					
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading			
ALTAMIRA	ALTAMIRA CFS	BREMEN	0/ZERO			
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³	
CARGO DETAILS AS PER ATTACHED STATEMENT						

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

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

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

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

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

Place and date of issue
BREMEN 22.03.2026

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
TRUMPF MEXICO S. DE R.L. DE C.V. BLVD. APODACA TECHNOLOGY PARK 66600 - APODACA, NUEVO LEON MEXICO	10 PALLETS	PROTECTIVE COATING, PAINT, CLEARCOAT FREILACKE: 12029004 AS PER ORDER: 1269045 HS-CODES: 32082090, 39119019 UN1263 - 3 - III UN1866 - 3 - III UN 1263/CLASS 3/PG III IMO GROSS WEIGHT: 4162,080 KGS IMO NET WEIGHT : 3840,000 KGS UN 1866/CLASS 3/PG III IMO GROSS WEIGHT: 1048,000 KGS IMO NET WEIGHT : 1000,000 KGS		5430,000	10,426
STOWED INTO CONTAINER NO.: MRSU6797602				SEAL : B136264	
TOTAL	10 PALLETS			5430,000 KGS	10,426 CBM

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

B/L No.
ALM257928



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

6/03/BRE/527106

Copy

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

Notify Party and address
SAME AS CONSIGNEE

		Place of receipt HAMBURG CFS	
Ocean vessel CLEMENS SCHULTE		Port of loading HAMBURG, GERMANY	
Port of discharge ALTAMIRA, MEXICO	Place of delivery ALTAMIRA CFS		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. PLASTIC OMNIUM MEXICO SN 0002516067	Quantity of Goods 9 PALLETS	Description of Goods Said to contain MOTOR CAR ACCESSORIES HS-CODE: 392690 **HSCODE: 392690**	Gross weight, kg. 1150,360 Measurement, m ³ 7,069
STOWED INTO CONTAINER NO.: MRSU6797602		SEAL : B136264	
PLASTIC OMNIUM MEXICO DN 80108744, 80109063,80109065	8 PALLETS	REAR FOG REVERSE LAMP HS CODE: 851220 **HSCODE: 851220**	1340,000 10,080
STOWED INTO CONTAINER NO.: MRSU6797602		SEAL : B136264	
TOTAL		17 PALLETS	2490,360 KGS 17,149 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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- 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 22.03.2026

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
QUALIFIED CARGO SOLUTIONS GMBH
HESSENRING 30
64546 MOERFELDEN-WALLDORF
GERMANY
TAX-ID: DE111656032

B/L No.
ALM257943



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
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QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/03/BRE/527108

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Consigned to order of
STANDARD LOGISTICS SA DE CV
BLVD ANTONIO L. RODRIGUEZ 3054, 14-01,
SANTA MARIA,
C.P 64650 MONTERREY, NUEVO LEON,
MEXICO
RFC: SLO130918MW7
ARRIVALS@STRD.COM.MX

Notify Party and address
STANDARD LOGISTICS SA DE CV
BLVD ANTONIO L. RODRIGUEZ 3054, 14-01,
SANTA MARIA,
C.P 64650 MONTERREY, NUEVO LEON,
MEXICO.
RFC: SLO130918MW7
ARRIVALS@STRD.COM.MX

		Place of receipt HAMBURG CFS	
Ocean vessel CLEMENS SCHULTE		Port of loading HAMBURG	
Port of discharge ALTAMIRA	Place of delivery ALTAMIRA CFS		Number of original Bills of Lading 0/ZERO
Marks and Nos. CONDUCTIX MEXICO REF.: 1051069993 STOWED INTO CONTAINER NO.: MRSU6797602	Quantity of Goods 1 PACKAGE	Description of Goods PROTOLON (SMK)-LWL HS-CODE: 85446010	Said to contain Gross weight, kg. 1725,820 Measurement, m ³ 5,251
		SEAL : B136264	

TOTAL **1 PACKAGE** **1725,820 KGS** **5,251 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

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Place and date of issue
BREMEN 22.03.2026

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
AIT WORLDWIDE LOGISTICS
GERMANY GMBH
AM KAFFEE-QUARTIER 3
28217 BREMEN
GERMANY

B/L No.
ALM257960



SACO SHIPPING LINE LTD

Consigned to order of
AIT WORLDWIDE LOGISTICS
BOULEVARD ANTONIO QUIROGA
114, EL LLANITO
HERMOSILLO SON 83174
MEXICO
TAX ID:AWL150115BP3

Notify Party and address
SAME AS CONSIGNEE
SEASONORA@AITWORLDWIDE.COM

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

ALL COSTS, CHARGES,
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CUSTOMER'S ACCOUNT

6/03/BRE/527109

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		Place of receipt HAMBURG CFS				
Ocean vessel CLEMENS SCHULTE		Port of loading HAMBURG				
Port of discharge ALTAMIRA		Place of delivery ALTAMIRA 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
SONORA FORMING SA DE CV BLVD HENRY FORD 43 83297 HERMOSILLO, SONORA MX STOWED INTO CONTAINER NO.: MRSU6797602		6 PACKAGES	RET DOOR LATSCH STRIKER REF. 85112024 PO. 6010767385		1206,000	2,760
TOTAL		6 PACKAGES			1206,000 KGS	2,760 CBM

SEAL : B136264

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 22.03.2026

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

