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SHIPPER/EXPORTER SACO SHIPPING GMBH AS AGENT OF SACO SHIPPING LINE LTD BGM.-SMIDT-STR.128 D-28195 BREMER GERMANY / DE118597456		BOOKING NO. HAM53102400	SEA WAYBILL NO. ONEYHAM53102400
CONSIGNEE INTERTEAM, S.A. DE C.V. SERVIC. INTERNACION. DE COMERCIO COLIMA 114 DESPACHO 201 COLONIA ROMA,C.P.06700, MEXICO DF CN>		EXPORT REFERENCES(for the Merchant's and/or Carrier's reference only. See back clause 8. (4).) 183268 3/07/BRE/5260A	
NOTIFY PARTY (It is agreed that no responsibility shall be attached to the Carrier or its Agents for failure to notify) INTERTEAM, S.A. DE C.V. SERVIC. INTERNACION. DE COMERCIO COLIMA 114 DESPACHO 201 COLONIA ROMA,C.P.06700, MEXICO DF NP>		FORWARDING AGENT-REFERENCES FMC NO.	
PRE-CARRIAGE BY		PLACE OF RECEIPT HAMBURG, HH	RECEIVED by the Carrier in apparent good order and condition (unless otherwise stated herein) the total number or quantity of Containers or other packages or units indicated in the box entitled "Carrier's Receipt", to be carried subject to all the terms and conditions hereof from the Place of Receipt or Port of Loading to the Port of Discharge or Place of Delivery, as applicable. Delivery of the Goods to the Carrier for Carriage hereunder constitutes acceptance by the Merchant (as defined hereinafter) (i) of all the terms and conditions, whether printed, stamped or otherwise incorporated on this side and on the reverse side of this Bill of lading and the terms and conditions of the Carrier's applicable tariff(s) as if they were all signed by the Merchant, and (ii) that any prior representations and/or agreements for or in connection with Carriage of the Goods are superseded by this Bill of Lading. If this is a negotiable (To Order/of) Bill of Lading, one original Bill of Lading, duly endorsed must be surrendered by the Merchant to the Carrier (together with any outstanding Freight) in exchange for the Goods or a Delivery Order or the pin codes for any applicable Electronic Release System. If this is a non-negotiable (straight) Bill of Lading, or where issued as a Sea Waybill, the Carrier shall deliver the Goods or issue a Delivery Order or the pin codes for any applicable Electronic Release System (after payment of outstanding Freight) to the named consignee against the surrender of one original Bill of Lading, or in the case of a Sea Waybill, on production of such reasonable proof of identity as may be required by the Carrier, or in accordance with the national law at the Port of Discharge or Place of Delivery as applicable. IN WITNESS WHEREOF the Carrier or their Agent has signed the number of Bills of Lading stated at the top, all of this tenor and date, and whenever one original Bill of Lading has been surrendered all other Bills of Lading shall be void.
OCEAN VESSEL VOYAGE NO. FLAG SANTA VIOLA 033W	PORT OF LOADING HAMBURG, HH	FINAL DESTINATION(for the Merchant's reference only) ALTAMIRA	
PORT OF DISCHARGE ALTAMIRA	PLACE OF DELIVERY ALTAMIRA	TYPE OF MOVEMENT(IF MIXED, USE DESCRIPTION OF PACKAGES AND GOODS FIELD) FCL / FCL CY / CY	

(CHECK "HM" COLUMN IF HAZARDOUS MATERIAL)		PARTICULARS DECLARED BY SHIPPER BUT NOT ACKNOWLEDGED BY THE CARRIER			
CNTR. NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	GROSS MEASUREMENT
TRHU4361356 / WWA030053819			/ 53 PACKAGES /FCL / FCL/40HQ	22763.850KGS/56.367M3	
PLASTIC OMNIUM MEXICO DN: 45157	1 PACKAGE	H	MOTOR CAR ACCESSORIES HS-CODE: 392690	91.000KGS	1.560CBM
HE/80439774 EX. HEKATRON TECHNIK, SULZBURG ALLIANCE SPECIALIZED	3 PACKAGES		= 1 PALLET WITH 11 BOXES AND 2 CASES WITH 87 BOXES; PARTS FOR SMOKE DETECTOR HS-CODE: 391740	1021.000KGS	9.997CBM

** TO BE CONTINUED ON ATTACHED LIST **

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

FREIGHT & CHARGES PAYABLE AT / BY: HAMBURG, HH MEXICO CITY			SERVICE CONTRACT NO. THAMN00236A	DOC FORM NO.	COMMODITY CODE	EXCHANGE RATE	[0] ORIGINAL BILLS(S) HAVE BEEN SIGNED.
CODE	TARIFF ITEM	FREIGHTED AS	RATE	PREPAID	COLLECT		DATE CARGO RECEIVED
							DATE LADEN ON BOARD 07 JUL 2023
							PLACE OF BILL(S) ISSUE HAMBURG
							DATED 07 JUL 2023
The printed terms and conditions on this Bill are available at its website at www.one-line.com				SIGNED BY: OCEAN NETWORK EXPRESS (EUROPE) LTD. GERMANY BRANCH		as agent for and on behalf of	

Thorsten Bratthar



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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: SANTA VIOLA 033W

B/L NO.: ONEYHAMD53102400

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
SYSTEMS MEXICO POL: HAMBURG POD: ALTAMIRA					
PLASTIC OMNIUM MEXICO PL: 0001715645	1 PACKAGE		MOTOR CAR ACCESSORIES HS-CODE: 848140	178.000KGS	1.444CBM
SEA SOLDADURA Y EQUIPOS AUTOMATIC O S S.A. DE C.V. AV. ALFONSO REYES 1226, COL. LA CAMPANA 64760 MONTERREY MEXICO INV.: 200/10375256	3 PACKAGES		AUTOMATIC WELDING HELMET HS -CODE: 650610	141.000KGS	3.888CBM
ITW AUTOMOTIVE PRODUCTS MEXICO ALTAMIRA MEXICO 4384324 4384325 4384326 4384327 4384328	14 PACKAGES		AUTOMOTIVE SPARE PARTS HS CODE: 39263000	2581.000KGS	12.529CBM
VKI 10016497	6 PACKAGES		PUMP HOUSING HS CODE: 84139100	2072.160KGS	3.744CBM
SMR AUTOMOTIVE	2 PACKAGES		GRANULATE TEREZ PA66 7510 GF50 HS CODE: 39081000 ANY STORAGE WHICH SHOULD OCCURE HAS TO BE BILL DIRECTLY FROM SACO TO ALPHA TRANS	2268.000KGS	4.695CBM
CHT DE MEXICO VIA ALTAMIRA TORREON MEXICO	7 PACKAGES		3 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASILOXANE), 9, III, (+107.00 C C.C.), MARINE POLLUTANT 1 PLASTIC JERRICAN UN 3H1 HANSA CARE 2050 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYDIMETHYLSILOXANE, DIQUATERNARY,	3935.890KGS	8.677CBM

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

, as agent for and on behalf of



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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: SANTA VIOLA 033W

B/L NO.: ONEYHAMD53102400

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
			OCTAMETHYLCY CLOTETRASIOXANE), 9, III, (+100.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 HANSA OPTIMIZE A 1055 HS CODE: 34024200 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHER SIOXANE), 9, III, (+100.00 C C.C.), MARINE POLLUTANT 3 PLASTIC DRUMS UN 1H2 HANSA SP 1090 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASIOXANE), 9, III, (+103.00 C C.C.), MARINE POLLUTANT 4 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASIOXANE), 9, III, (+107.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 DURON OF 3201 HS CODE: 34039100 1 PLASTIC DRUMS UN 1H2 HANSA CARE 7140 ECO HS CODE: 38249996 3 PLASTIC DRUMS UN 1H2 SPACTIVE CT 5085 HS CODE: 39100000 1 PLASTIC DRUMS UN 1H2 CHT-ANTIFOAM BSN HS CODE: 39100000 10 PLASTIC DRUMS UN 1H2 HANSA LPW 780 HS CODE: 34024200 2 PLASTIC DRUMS UN 1H2 HANSA SP 1080D HS CODE: 39100000		
SOLVAY FLOUR GMBH MEXICO ALTAMIRA PO 4514116083	1 PACKAGE		33 BUCKET NOCOLOK FLUX PASTE S01-23 CS IN 20 KG PE PAIL HS CODE: 38109099	723.000KGS	1.884CBM
PLASTIVALOIRE MEXIKO SA DE CV	5 PACKAGES		THREADED BUSH SK2174-1 BUTCH NUMBER 2314400015,	2544.800KGS	3.312CBM

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

, as agent for and on behalf of



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

ORIGINAL NON NEGOTIABLE

VESSEL VOYAGE: SANTA VIOLA 033W

B/L NO.: ONEYHAMD53102400

CNTR NOS. W/SEAL NOS. MARKS & NUMBERS	QUANTITY (FOR CUSTOMS DECLARATION ONLY)	H M	DESCRIPTION OF GOODS	GROSS WEIGHT	MEASUREMENT
AV. CRC. SAN CRISTOBAL NORTE 100-B 78423 SAN LUIS POTOSI MEXIKO			2315800017 AS PER PACKING SLIP 20064483 HS CODE: 73181900		
MAHLE COMPONENTE S DE MOTOR RAMOR ARIZPE PO: 4501257527 KIND ORDER NO. 1277941 NO. 1 MADE IN GERMANY	10 PACKAGES		HARDENED USN RINGS PO 4501257527 HS CODE:73269092 CN> PH: 514-69 15 FX: 208-79-8 NP> PH: 514-69 15 FX: 208-79-8	7208.000KGS	4.637CBM

ALSO NOTIFY 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 OCEAN FREIGHT PREPAID "SHIPPED ON BOARD SHIPPER'S LOAD, STOW AND COUNT ALM249789 ALM249749 ALM249789 ALM249771 ALM249776 ALM249785 ALM249791 ALM249776 ALM249776 ALM249807 ALM249832 INLAND TRANSPORTATION IN MEXICO IS CARRIED OUT ACCORDING TO LOCAL REGULATIONS. THE INFORMATION IN THE MASTER BILL OF LADING CAN BE AMENDED SUBJECT TO CUSTOMS REVIEW AND PENALIZATION IF THE BILL OF LADING IS ALLOWED TO AMEND, THE REQUESTER OF THE AMENDMENT SHALL BE RESPONSIBLE FOR SUCH CUSTOMS PENALTY AND INDEMNIFY THE CARRIE AND ITS AGENTS AGAINST ANY CONSEQUENCES WHATSOEVER IN RELATION TO SUCH AMENDMENT. AGENT AT DESTINATION: ONE OCEAN NETWORK EXPRESS SHIPPING MEXICO, S.A. DE C.V. CIUDAD DE MEXICO PASEO DE LA REFORMA 180, PISO 19, COLONIA JUAREZ, DEL. CUAUHTEMOC, CIUDAD DE MEXICO, C.P. 06600 TEL: 5547808200 FAX: "					

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

, as agent for and on behalf of

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

Manifest

Page: 1

Container-No.: TRHU4361356 40' HIGH CUBE CONTAINER Seal-No.: WWA030053819
Vessel: SAC9175 / SANTA VIOLA
ETS:
Master-B/L.: ONEYHAMD53102400

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM249749	HE/80439774 EX. HEKATRON TECHNIK, SULZBURG ALLIANCE SPECIALIZED SYSTEMS MEXICO POL: HAMBURG POD: ALTAMIRA	3	PACKAGES	= 1 PALLET WITH 11 BOXES AND 2 CASES WITH 87 BOXES; PARTS FOR SMOKE DETECTOR HS-CODE: 391740	1021.000	9.997
ALM249771	SEA SOLDADURA Y EQUIPOSAUTOMAT S.A. DE C.V. AV. ALFONSO REYES 1226, COL. LA CAMPANA 64760 MONTERREY MEXICO INV.: 200/10375256	3	PACKAGES	AUTOMATIC WELDING HELMET HS -CODE: 650610	141.000	3.888

Manifest

Page: 2

Container-No.: TRHU4361356 40' HIGH CUBE CONTAINER Seal-No.: WWA030053819
 Vessel: SAC9175 / SANTA VIOLA
 ETS:
 Master-B/L.: ONEYHAMD53102400

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM249776	CHT DE MEXICO VIA ALTAMIRA TORREON MEXICO	7	PALLETS	3 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASILOXAN 9, III, (+107.00 C C.C.), MARINE POLLUTANT 1 PLASTIC JERRICAN UN 3H1 HANSA CARE 2050 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYDIMETHYLSILO DIQUATERNARY, OCTAMETHYLCY CLOTETRASIOLOXANE) 9, III, (+100.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 HANSA OPTIMIZE A 1055 HS CODE: 34024200 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHER SILOXANE), 9, III, (+100.00 C C.C.), MARINE POLLUTANT	3935.890	8.677

Manifest

Page: 3

Container-No.: TRHU4361356 40' HIGH CUBE CONTAINER Seal-No.: WWA030053819
 Vessel: SAC9175 / SANTA VIOLA
 ETS:
 Master-B/L.: ONEYHAMD53102400

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
				3 PLASTIC DRUMS UN 1H2 HANSA SP 1090 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASILOXAN 9, III, (+103.00 C C.C.), MARINE POLLUTANT 4 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASILOXAN 9, III, (+107.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 DURON OF 3201 HS CODE: 34039100 1 PLASTIC DRUMS UN 1H2 HANSA CARE 7140 ECO HS CODE: 38249996 3 PLASTIC DRUMS UN 1H2 SPACTIVE CT 5085 HS CODE: 39100000 1 PLASTIC DRUMS UN 1H2 CHT-ANTIFOAM BSN HS CODE: 39100000 10 PLASTIC DRUMS		

Manifest

Page: 4

Container-No.: TRHU4361356 40' HIGH CUBE CONTAINER Seal-No.: WWA030053819
Vessel: SAC9175 / SANTA VIOLA
ETS:
Master-B/L.: ONEYHAMD53102400

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
				UN 1H2 HANSA LPW 780 HS CODE: 34024200 2 PLASTIC DRUMS UN 1H2 HANSA SP 1080D HS CODE: 39100000		
ALM249776	ITW AUTOMOTIVE PRODUCTS MEXICO ALTAMIRA MEXICO 4384324 4384325 4384326 4384327 4384328	14	PALLETS	AUTOMOTIVE SPARE PARTS HS CODE: 39263000	2581.000	12.529
ALM249776	SOLVAY FLOUR GMBH MEXICO ALTAMIRA PO 4514116083	1	PALLET	33 BUCKET NOCOLOK FLUX PASTE S01-23 CS IN 20 KG PE PAIL HS CODE: 38109099	723.000	1.884
ALM249785	VKI 10016497	6	PALLETS)	PUMP HOUSING HS CODE: 84139100	2072.160	3.744
ALM249789	PLASTIC OMNIUM MEXICO PL: 0001715645	1	PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 848140	178.000	1.444
ALM249789	PLASTIC OMNIUM MEXICO DN: 45157	1	PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 392690	91.000	1.560

Manifest

Page: 5

Container-No.: TRHU4361356 40' HIGH CUBE CONTAINER Seal-No.: WWA030053819
Vessel: SAC9175 / SANTA VIOLA
ETS:
Master-B/L.: ONEYHAMD53102400

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
ALM249791	SMR AUTOMOTIVE	2	PALLETS	GRANULATE TEREZ PA66 7510 GF50 HS CODE: 39081000 ANY STORAGE WHICH SHOULD OCCURE HAS TO BE BILL DIRECTLY FROM SACO TO ALPHA TRANS	2268.000	4.695
ALM249807	PLASTIVALOIRE MEXIKO SA DE CV AV. CRC. SAN CRISTOBAL NORTE 100-B 78423 SAN LUIS POTOSI MEXIKO	5	PACKAGES	THREADED BUSH SK2174-1 BUTCH NUMBER 2314400015, 2315800017 AS PER PACKING SLIP 20064483 HS CODE: 73181900	2544.800	3.312
ALM249832	MAHLE COMPONENTES DE MOTOR RAMOR ARIZPE PO: 4501257527 KIND ORDER NO. 1277941 NO. 1 MADE IN GERMANY	10	PACKAGES	HARDENED USN RINGS PO 4501257527 HS CODE:73269092	7208.000	4.637

Total	Quantity 53	Grossweight 22.763.850	Measurement 56.367
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Shipper
LS CARGO LOGISTICS GMBH
TEERHOF 59
28199 BREMEN

TAX ID:DE 11 44 19 364

Consigned to order of
IGS INTERNACIONAL CARGO S.A DE C.V
UXMAL 525, PLANTA BAJA,
CP. 03600.DELEGACION BENITO JUAREZ
CIUDAD DE MEXICO
MEXICO RFC:IIC1606084IO
PH +52 55 70265137
MAIL:PROYECTOS@IGSCARGO.COM

Notify Party and address
SAME AS CONSIGNEE

B/L No.
ALM249749

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526002

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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. HE/80439774 EX. HEKATRON TECHNIK, SULZBURG ALLIANCE SPECIALIZED SYSTEMS MEXICO POL: HAMBURG POD: ALTAMIRA STOWED INTO CONTAINER NO.: TRHU4361356	Quantity of Goods 3 PACKAGES	Description of Goods Said to contain = 1 PALLET WITH 11 BOXES AND 2 CASES WITH 87 BOXES; PARTS FOR SMOKE DETECTOR HS-CODE: 391740	Gross weight, kg. 1021,000 Measurement, m ³ 9,997

SEAL : WWA030053819

TOTAL 3 PACKAGES 1021,000 KGS 9,997 CBM

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

Note:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
TAX ID:DE814839526

B/L No.
ALM249771

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526004

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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. SEA SOLDADURA Y EQUIPOS AUTOMATICOS S.A. DE C.V. AV. ALFONSO REYES 1226, COL. LA CAMPANA 64760 MONTERREY MEXICO INV.: 200/10375256 STOWED INTO CONTAINER NO.: TRHU4361356	Quantity of Goods 3 PACKAGES	Description of Goods AUTOMATIC WELDING HELMET HS -CODE: 650610	Said to contain Gross weight, kg. 141,000 Measurement, m ³ 3,888

SEAL : WWA030053819

TOTAL 3 PACKAGES 141,000 KGS 3,888 CBM

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

Note:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

MULTI MODAL DANGEROUS GOODS FORM

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

MARPOL 73/78, Annex III, regulation 4

Shipper/Consignor/Sender CHT GERMANY Rudolf-Diesel-Straße 19-21 28876 Oyten Germany	Page 1 of 2 Pages		Freight Forwarder's reference 230708120937	
Consignee CHT DE MEXICO SA DE CV COL. ZONA INDUSTRIAL CALLE JOAQUIN SERRANO NO. 110 27019 TORREON Mexico	Carrier Saco Shipping Line, Limassol			
CONTAINER/VEHICLE PACKING CERTIFICATE I hereby declare that the goods described below have been packed/loaded into the container/vehicle identified below in accordance with the applicable provisions. MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING Name/status, company Place and Date: Signature of packer	Vessel Santa Viola (033W) Port of loading Hamburg Port of discharge Altamira SHIPPER'S DECLARATION I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations. Name/status, company Lexzau, Scharbau on behalf of CHT, Oyten Place and Date: Hamburg / Bremen 21.06.2023 <i>T. Liberoudis T. Glaubke</i> Signature on behalf of shipper Thomas Liberoudis / Timo Glaubke			
No.	Number & kind of packages	Description of goods	Gross mass	
1)	7 pallets	pallet weight: kg		
	= 3 plastic drums UN 1H2	Gross weight:	376,560 kg	
		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYLCYCLOTETRASILOXANE), 9, III, (+107,0°C c.c.), MARINE POLLUTANT, EmS: F-A,S-F Emergency Contact: CHT Germany GmbH via Chemtrec CCN1001057 24-hours no.+1 703 527 3887 Cargo gross/net weight: 376,560kg / 360,000kg		
	= 1 plastic jerrican UN 3H1	Gross weight:	31,410 kg	
		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYDIMETHYLSILOXANE, DIQUATERNARY, OCTAMETHYLCYCLOTETRASILOXANE), 9, III, (+100,0°C c.c.), MARINE POLLUTANT, EmS: F-A,S-F Emergency Contact: CHT Germany GmbH via Chemtrec CCN1001057 24-hours no.+1 703 527 3887 Cargo gross/net weight: 31,410kg / 30,000kg		
	= 2 plastic drums UN 1H2	Gross weight:	251,040 kg	
		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHER SILOXANE), 9, III, (+100,0°C c.c.), MARINE POLLUTANT, EmS: F-A,S-F Emergency Contact: CHT Germany GmbH via Chemtrec CCN1001057 24-hours no.+1 703 527 3887 Cargo gross/net weight: 251,040kg / 240,000kg		
	= 3 plastic drums UN 1H2	Gross weight:	376,560 kg	
		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYLCYCLOTETRASILOXANE), 9, III, (+103,0°C c.c.), MARINE POLLUTANT, EmS: F-A,S-F Emergency Contact: CHT Germany GmbH via Chemtrec CCN1001057 24-hours no.+1 703 527 3887 Cargo gross/net weight: 376,560kg / 360,000kg		
	= 4 plastic drums UN 1H2	Gross weight:	502,080 kg	
		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYLCYCLOTETRASILOXANE), 9, III, (+107,0°C c.c.), MARINE POLLUTANT, EmS: F-A,S-F		

MULTI MODAL DANGEROUS GOODS FORM

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

MARPOL 73/78, Annex III, regulation 4

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	Carrier Saco Shipping Line, Limassol		
Consignee CHT DE MEXICO SA DE CV COL. ZONA INDUSTRIAL CALLE JOAQUIN SERRANO NO. 110 27019 TORREON Mexico	Vessel Santa Viola (033W)		
	Port of loading Hamburg	Port of discharge Altamira	
No.	Number & kind of packages	Description of goods	Gross mass
		Emergency Contact: CHT Germany GmbH via Chemtrec CCN1001057 24-hours no.+1 703 527 3887 Cargo gross/net weight: 502,080kg / 480,000kg	

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

Trade name : HANSA SP 1080

Substance name : Siloxanes and Silicones, ethoxylated propoxylated

CAS-No. : 128192-17-6

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

Use of the Sub-stance/Mixture : Textile auxiliary
Raw material for textile auxiliaries
Raw material for care products formulae
Additive for paints and lacquers
Additive for lubricants and greases
Additive for aqueous resin systems
Auxiliary for the paper industry
Construction auxiliary
Coatings

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier**

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49 7071 154 0
info@cht.com

CHT Switzerland AG
Kriessernstrasse 20
9462 Montlingen
Switzerland
Tel.: +41 71 763 88 11
info.switzerland@cht.com

CHT UK Bridgwater Ltd.
Showground Road
Bridgwater TA6 6AJ
United Kingdom
Tel.: +44 1278 411 400
info.uk@cht.com

Importer : -
-
-
-
-

Responsible Department : CHT Germany GmbH
CHT Switzerland AG
Product Safety
sds.germany@cht.com
sds.switzerland@cht.com

1.4 Emergency telephone number

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Emergency telephone number : +1 703 527 3887 CHEMTREC (International, 24 hours)
+44 20 3807 3798 CHEMTREC (United Kingdom, 24 hours)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Substance name : Siloxanes and Silicones, ethoxylated propoxylated

CAS-No. : 128192-17-6

Chemical nature : Polyethermodified polysiloxane

Components

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Chemical name	CAS-No. EC-No.	Concentration (% w/w)
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	556-67-2 209-136-7	$\geq 0.25 - < 1$
PBT and vPvB substance :		
decamethylcyclopentasiloxane (REACH SVHC Candidate List)	541-02-6 208-764-9	$\geq 0.1 - < 1$
dodecamethylcyclohexasiloxane (REACH SVHC Candidate List)	540-97-6 208-762-8	$\geq 0.1 - < 1$

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : In case of skin contact remove mechanically with cloth or paper.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If symptoms persist, call a physician.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Foam
- Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica

5.3 Advice for firefighters

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

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
Normal measures for preventive fire protection.

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Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do always store in containers which correspond to the original ones. Keep container tightly closed.

Further information on storage conditions : Store container in a well ventilated position. Store in a cool, dry area.

Advice on common storage : No special precautions required.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Workers	Inhalation	Long-term systemic effects	73 mg/m3
	Workers	Inhalation	Long-term local effects	73 mg/m3
	Consumers	Inhalation	Long-term systemic effects	13 mg/m3
	Consumers	Inhalation	Long-term local effects	13 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3.7 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Fresh water	1.5 µg/l
	Marine water	0.15 µg/l
	STP	10 mg/l
	Fresh water sediment	3 mg/kg dry weight (d.w.)
	Marine sediment	0.3 mg/kg dry weight (d.w.)
	Soil	0.54 mg/kg dry weight (d.w.)
	Secondary Poisoning	41 mg/kg food

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8.2 Exposure controls**Engineering measures**

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : PVC
Break through time : > 480 min
Glove thickness : >= 0.5 mm
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
Combination filter A/P (EN 141)

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

Appearance : liquid

Colour : colourless, yellow

Odour : slight, characteristic

pH : Not applicable substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 107 °C
Method: ISO 2719

Evaporation rate : Not applicable

Upper explosion limit / Upper flammability limit : Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Density	:	1 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	300 - 800 mPa.s (20 °C) Method: Brookfield 50 rpm
Viscosity, kinematic	:	not determined
Oxidizing properties	:	Not applicable

9.2 Other information

Flammability (liquids)	:	Sustains combustion
Conductivity	:	Not determined
Particle Size Distribution	:	Not applicable
Self-ignition	:	not auto-flammable

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

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

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10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: Argument by analogy

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Acute oral toxicity : LD50 Oral (Rat, male): 4,800 mg/kg
Method: OECD Test Guideline 401
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,375 mg/kg
Method: OECD Test Guideline 402

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 8.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Test substance: Aerosol

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product:**

Remarks : Prolonged skin contact may cause skin irritation.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Remarks : Contact with eyes may cause irritation.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation**Product:**

Remarks : No known sensitising effect.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

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dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Germ cell mutagenicity**Product:**

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

Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

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

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

Further information**Product:**

Remarks : If used and handled according to specifications, the product does not have any harmful effects according to our experience

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and the information provided to us.

SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : Remarks: No data is available on the product itself.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.
- Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.
- Toxicity to microorganisms :
Remarks: According to the previous knowledge no damaging effects will occur to purification plant, if used according to instructions.

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.015 mg/l
Exposure time: 48 h
Test Type: flow-through test
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- EC50 (Pseudokirchneriella subcapitata (algae)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : NOEC: >= 0.0044 mg/l
Exposure time: 93 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.0015 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 10

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): >16 µg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD 204
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): >2,9 µg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): >12 µg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 2,000 mg/l
Exposure time: 3 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: >= 14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=15 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): >2 µg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : >=14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=4,6 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability**Product:**

- Biodegradability : Remarks: No data is available on the product itself.
- Physico-chemical removability : Remarks: May be separated mechanically in waste water plants.
The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

12.3 Bioaccumulative potential**Product:**

- Bioaccumulation : Remarks: No data is available on the product itself.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

- Partition coefficient: n-octanol/water : log Pow: 6.98 (21.7 °C)

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

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Partition coefficient: n-octanol/water : log Pow: 8.023
Method: OECD Test Guideline 123

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Partition coefficient: n-octanol/water : log Pow: 8.87 (23.6 °C)

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : Remarks: Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

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14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(octamethylcyclotetrasiloxane)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(octamethylcyclotetrasiloxane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(octamethylcyclotetrasiloxane)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(octamethylcyclotetrasiloxane)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Segregation group : -

IATA (Cargo)

Packing instruction (cargo aircraft) : 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

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14.5 Environmental hazards**ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

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

Remarks : Not applicable

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

Relevant EU provisions transposed through retained EU law

Other regulations:**15.2 Chemical safety assessment**

not required

SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-

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rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

- Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.
- Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.
- Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

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

GB / EN

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CAS-No. : 2088043-93-8
Chemical nature : Polyethermodified polysiloxane

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	556-67-2 209-136-7	$\geq 0.25 - < 1$
PBT and vPvB substance :		
decamethylcyclopentasiloxane (REACH SVHC Candidate List)	541-02-6 208-764-9	$\geq 0.1 - < 1$
dodecamethylcyclohexasiloxane (REACH SVHC Candidate List)	540-97-6 208-762-8	$\geq 0.1 - < 1$

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
If symptoms persist, call a physician.

In case of skin contact : In case of skin contact remove mechanically with cloth or paper.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
If symptoms persist, call a physician.

If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica

5.3 Advice for firefighters

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

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

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6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol.
- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Do always store in containers which correspond to the original ones. Keep container tightly closed.
- Further information on storage conditions : Store container in a well ventilated position. Store in a cool, dry area.
- Advice on common storage : No special precautions required.

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
octamethylcyclotetra-siloxane (REACH SVHC Candidate List)	Workers	Inhalation	Long-term systemic effects	73 mg/m ³
	Workers	Inhalation	Long-term local effects	73 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	13 mg/m ³
	Consumers	Inhalation	Long-term local effects	13 mg/m ³
	Consumers	Ingestion	Long-term systemic	3.7 mg/kg

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			effects	bw/day
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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Fresh water	1.5 µg/l
	Marine water	0.15 µg/l
	STP	10 mg/l
	Fresh water sediment	3 mg/kg dry weight (d.w.)
	Marine sediment	0.3 mg/kg dry weight (d.w.)
	Soil	0.54 mg/kg dry weight (d.w.)
	Secondary Poisoning	41 mg/kg food

8.2 Exposure controls**Engineering measures**

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : >= 0.7 mm
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
Combination filter A/P (EN 141)

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

Physical state : liquid

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Colour	:	clear, slight, cloudy, yellow, colourless
Odour	:	characteristic
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	103 °C Method: ISO 2719
pH	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	100 - 900 mPa.s (20 °C) Brookfield LVT spindle 3 50 rpm
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	No data available
Density	:	1 g/cm ³ (20 °C)
Relative vapour density	:	Not applicable

9.2 Other information

Oxidizing properties	:	Not applicable
Self-ignition	:	not auto-flammable
Evaporation rate	:	Not applicable
Conductivity	:	Not determined

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

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: Argument by analogy

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Acute oral toxicity : LD50 (Rat, male): 4,800 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,375 mg/kg
Method: OECD Test Guideline 402

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decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 8.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product:**

Remarks : Prolonged skin contact may cause skin irritation.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Remarks : Contact with eyes may cause irritation.

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Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation**Product:**

Remarks : No known sensitising effect.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Species : Mouse
Method : OECD Test Guideline 429
Result : Did not cause sensitisation on laboratory animals.

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Germ cell mutagenicity**Product:**

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

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Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

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

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

11.2 Information on other hazards**Endocrine disrupting properties****Product:**

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

Further information**Product:**

Remarks : Experimental examinations with this product do not exist.

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SECTION 12: Ecological information**12.1 Toxicity****Product:**

- Toxicity to fish : Remarks: No data is available on the product itself.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.
- Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.
- Toxicity to microorganisms :
Remarks: According to the previous knowledge no damaging effects will occur to purification plant, if used according to instructions.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.015 mg/l
Exposure time: 48 h
Test Type: flow-through test
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- EC50 (Pseudokirchneriella subcapitata (algae)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : NOEC: >= 0.0044 mg/l
Exposure time: 93 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test

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Toxicity to daphnia and other : NOEC: > 0.0015 mg/l
aquatic invertebrates (Chronic toxicity) Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 10

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): >16 µg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD 204
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): >2,9 µg/l
aquatic invertebrates Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): >12
plants µg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 2,000 mg/l
Exposure time: 3 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: >= 14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other : NOEC: >=15 µg/l
aquatic invertebrates (Chronic toxicity) Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

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Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): >2 µg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : >=14 µg/l
Exposure time: 90 d
Species: *Oncorhynchus mykiss* (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=4,6 µg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability**Product:**

Biodegradability : Remarks: No data is available on the product itself.

Physico-chemical removability : Remarks: May be separated mechanically in waste water plants.
The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data is available on the product itself.

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Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Partition coefficient: n- : log Pow: 6.98 (21.7 °C)
octanol/water

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Partition coefficient: n- : log Pow: 8.023
octanol/water Method: OECD Test Guideline 123

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Partition coefficient: n- : log Pow: 8.87 (23.6 °C)
octanol/water

12.4 Mobility in soil**Product:**

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)..

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT)..

: This substance is considered to be very persistent and very bioaccumulating (vPvB)..

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT)..

: This substance is considered to be very persistent and very bioaccumulating (vPvB)..

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT)..

: This substance is considered to be very persistent and very bioaccumulating (vPvB)..

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12.6 Endocrine disrupting properties**Product:**

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

12.7 Other adverse effects**Product:**

Adsorbed organic bound halogens (AOX) : Remarks: Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Pay attention to local or official regulations.
Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information**14.1 UN number or ID number**

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(octamethylcyclotetrasiloxane)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(octamethylcyclotetrasiloxane)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADN

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Segregation group : na - Not assigned to a segregation group

IATA (Cargo)

Packing instruction (cargo aircraft) : 964

Packing instruction (LQ) : Y964

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Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles

14.5 Environmental hazards**ADN**

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

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

National and local regulations must be observed.

15.2 Chemical safety assessment

not required

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SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

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

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Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

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

GB / EN

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P391 Collect spillage.

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.1 Substances**

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Substance name : Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-

CAS-No. : 27306-78-1

Chemical nature : Polyethermodified trisiloxane

Components**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
If symptoms persist, call a physician.

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

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.

If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : There may be reddening, swelling, overheating and pain on contact.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Foam

Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica

5.3 Advice for firefighters

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

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection.

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Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Do always store in containers which correspond to the original areas and containers : ones. Keep container tightly closed.

Advice on common storage : No special precautions required.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Workers	Inhalation	Long-term systemic effects	73 mg/m3
	Workers	Inhalation	Long-term local effects	73 mg/m3
	Consumers	Inhalation	Long-term systemic effects	13 mg/m3
	Consumers	Inhalation	Long-term local effects	13 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3,7 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Fresh water	1,5 µg/l
	Marine water	0,15 µg/l
	STP	10 mg/l
	Fresh water sediment	3 mg/kg dry weight (d.w.)
	Marine sediment	0,3 mg/kg dry weight (d.w.)
	Soil	0,54 mg/kg dry weight (d.w.)
	Secondary Poisoning	41 mg/kg food

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8.2 Exposure controls**Engineering measures**

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0,35 mm
Protective index : Class 6

Material : Neoprene
Break through time : > 480 min
Glove thickness : > 0,5 mm
Protective index : Class 6

Material : PVC
Break through time : > 480 min
Glove thickness : > 0,5 mm
Protective index : Class 6

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : > 0,5 mm
Protective index : Class 6

Remarks : The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
Combination filter A/P (EN 141)

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

Physical state : liquid

Colour : light yellow

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Odour	:	characteristic
Melting point/range	:	No data available
Boiling point/boiling range	:	> 150 °C
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	> 100 °C
Auto-ignition temperature	:	not determined
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
pH	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	5 - 60 mPa.s (20 °C) Brookfield LVT
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	dispersible, hydrolyses
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	< 1,33 hPa (20 °C)
Density	:	1 g/cm ³ (20 °C)
Relative vapour density	:	Not applicable

9.2 Other information

Oxidizing properties	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Self-ignition	:	not auto-flammable
Evaporation rate	:	Not applicable
Conductivity	:	Not determined

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

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: > 300 - 2 000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2 000 - 5 000 mg/kg
Method: Calculation method

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-:

Acute oral toxicity : LD50 (Rat): > 300 - 2 000 mg/kg
Remarks: Argument by analogy

Acute inhalation toxicity : LC50 (Rat): 2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Argument by analogy

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Acute dermal toxicity : LD50 (Rat): > 2 000 mg/kg
Remarks: Argument by analogy

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 Oral (Rat, male): 4 800 mg/kg
Method: OECD Test Guideline 401
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Skin corrosion/irritation**Product:**

Remarks : Prolonged skin contact may cause skin irritation.

Components:**Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Argument by analogy

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Remarks : Causes serious eye irritation.

Components:**Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-:**

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.
Remarks : Argument by analogy

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

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Respiratory or skin sensitisation**Product:**

Remarks : No known sensitising effect.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
Remarks : Argument by analogy

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity**Product:**

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

Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

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

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure**Product:**

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

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STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

11.2 Information on other hazards**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to microorganisms :
Remarks: No data is available on the product itself.

Components:**Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl -1-[(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l
Exposure time: 96 h
Remarks: Argument by analogy

Toxicity to daphnia and other : EC50 (Daphnia similis (water flea)): > 10 - 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Remarks: Argument by analogy

Toxicity to algae/aquatic : EC50 (green algae): > 1 - 10 mg/l
plants
Exposure time: 96 h
Remarks: Argument by analogy

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,015 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: flow-through test
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0,022 mg/l

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plants	Exposure time: 96 h Remarks: Not classified due to data which are conclusive although insufficient for classification. EC50 (Pseudokirchneriella subcapitata (algae)): > 0,022 mg/l Exposure time: 96 h Remarks: Not classified due to data which are conclusive although insufficient for classification.
Toxicity to microorganisms	: EC50 (activated sludge): > 10 000 mg/l Exposure time: 3 h Test Type: static test Method: ISO 8192
Toxicity to fish (Chronic toxicity)	: NOEC: >= 0,0044 mg/l Exposure time: 93 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 0,0015 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test
M-Factor (Chronic aquatic toxicity)	: 10

12.2 Persistence and degradability**Product:**

Biodegradability	: Remarks: No data is available on the product itself.
Physico-chemical removability	: Remarks: The elimination in a sewerage purification plant is effected by means of biological decomposition as well as abiotic processes such as e.g. flocculation and precipitation, sedimentation, adsorption to the activated sludge and mechanical separation.

12.3 Bioaccumulative potential**Product:**

Bioaccumulation	: Remarks: No data is available on the product itself.
-----------------	--

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Partition coefficient: n-octanol/water	: log Pow: 6,98 (21,7 °C)
--	---------------------------

12.4 Mobility in soil**Product:**

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Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects**Product:**

Adsorbed organic bound halogens (AOX) : Remarks: Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information**14.1 UN number or ID number**

ADN : UN 3082

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polyether siloxane)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polyether siloxane)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polyether siloxane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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IATA : N.O.S.
(polyether siloxane)
: Environmentally hazardous substance, liquid, n.o.s.
(polyether siloxane)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Segregation group : na - Not assigned to a segregation group

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

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ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

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

National and local regulations must be observed.

15.2 Chemical safety assessment

not required

SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-

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sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

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

3
8
9
11
12

Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG_EU_RED / EN

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Dry powder
Foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

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

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

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- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol.
- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Do always store in containers which correspond to the original ones. Keep container tightly closed.
- Further information on storage conditions : Store container in a well ventilated position. Store in a cool, dry area.
- Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	TWA (Total vapour and particles)	150 ppm 474 mg/m ³	GB EH40
		TWA (particles)	10 mg/m ³	GB EH40

8.2 Exposure controls**Engineering measures**

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

- Material : PVC
- Break through time : > 480 min
- Glove thickness : >= 0.5 mm
- Protective index : Class 6

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- Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.
- Skin and body protection : Wear suitable protective clothing (EN 14605).
- Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
Combination filter A/P (EN 141)

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

- Appearance : liquid
- Colour : clear, light yellow, yellow
- Odour : characteristic
- pH : Not applicable substance/mixture is non-soluble (in water)
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : > 100 °C
- Evaporation rate : Not applicable
- Upper explosion limit / Upper flammability limit : Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable
- Vapour pressure : No data available
- Relative vapour density : Not applicable
- Density : No data available
- Solubility(ies)
Water solubility : < 0.005 g/l (20 °C)
Method: OECD Test Guideline 105
- Partition coefficient: n-octanol/water : Not applicable

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Auto-ignition temperature	:	not determined
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	4,000 - 14,000 mPa.s (20 °C) Brookfield LVT
Viscosity, kinematic	:	not determined
Oxidizing properties	:	Not applicable

9.2 Other information

Flammability (liquids)	:	Sustains combustion
Conductivity	:	Not determined
Particle Size Distribution	:	Not applicable
Self-ignition	:	not auto-flammable

SECTION 10: Stability and reactivity
10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information
11.1 Information on toxicological effects**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD 423

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Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Acute oral toxicity : LD50 Oral (Rat, male): 4,800 mg/kg
Method: OECD Test Guideline 401
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 8.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Test substance: Aerosol

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product:**

Species : Rabbit
Remarks : No skin irritation
Argument by analogy

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

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dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Remarks : Mild eye irritation
Argument by analogy

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation**Product:**

Remarks : No known sensitising effect.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Germ cell mutagenicity**Product:**

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

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Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

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

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

Further information**Product:**

Remarks : Experimental examinations with this product do not exist.

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l
Exposure time: 96 h
Remarks: in Butyldiglycol

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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Remarks: in Butyldiglycol

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 5 mg/l
Exposure time: 72 h
Method: Algal inhibition test
Remarks: in Butyldiglycol

Toxicity to microorganisms :
Remarks: According to the previous knowledge no damaging effects will occur to purification plant, if used according to instructions.

Components:

Silicone Quaternium-17:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 10 - 100 mg/l
Exposure time: 96 h
Remarks: in Butyldiglycol

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: in Butyldiglycol

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 5 mg/l
Exposure time: 72 h
Method: Algal inhibition test
Remarks: in Butyldiglycol

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Method: OECD Test Guideline 209
Remarks: Solvent

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.015 mg/l
Exposure time: 48 h
Test Type: flow-through test
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic plants : EC10 (*Pseudokirchneriella subcapitata* (algae)): >= 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

EC50 (*Pseudokirchneriella subcapitata* (algae)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.

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- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : NOEC: ≥ 0.0044 mg/l
Exposure time: 93 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.0015 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
- M-Factor (Chronic aquatic toxicity) : 10

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): >16 µg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD 204
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): >2,9 µg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): >12 µg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 2,000 mg/l
Exposure time: 3 h
Test Type: static test
- Toxicity to fish (Chronic toxicity) : NOEC: ≥ 14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: ≥ 15 µg/l
Exposure time: 21 d

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ic toxicity) Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

dodecamethylcyclhexasiloxane (REACH SVHC Candidate List):

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): >2 µg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : >=14 µg/l
Exposure time: 90 d
Species: *Oncorhynchus mykiss* (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=4,6 µg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability**Product:**

Physico-chemical removability : Remarks: May be separated mechanically in waste water plants.
The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

Components:**Silicone Quaternium-17:**

Biodegradability : Result: Not readily biodegradable.

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12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Partition coefficient: n-octanol/water : log Pow: 6.98 (21.7 °C)

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Partition coefficient: n-octanol/water : log Pow: 8.023
Method: OECD Test Guideline 123

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Partition coefficient: n-octanol/water : log Pow: 8.87 (23.6 °C)

12.4 Mobility in soil**Product:**

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT).
: This substance is considered to be very persistent and very bioaccumulating (vPvB).

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT).
: This substance is considered to be very persistent and very bioaccumulating (vPvB).

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Assessment : This substance is considered to be persistent, bioaccumulating and toxic (PBT).

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: This substance is considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**Product:**

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

Adsorbed organic bound halogens (AOX) : Remarks: Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information**14.1 UN number**

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polydimethylsiloxane, diquatary, octamethylcyclotetra-siloxane)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polydimethylsiloxane, diquatary, octamethylcyclotetra-siloxane)

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IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(polydimethylsiloxane, diquaternaly, octamethylcyclotetra-siloxane)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(polydimethylsiloxane, diquaternaly, octamethylcyclotetra-siloxane)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group**ADR**

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F
Segregation group : na - Not assigned to a segregation group

IATA (Cargo)

Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards**ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

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IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

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

Remarks : Not applicable

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

Relevant EU provisions transposed through retained EU law

Other regulations:**15.2 Chemical safety assessment**

not required

SECTION 16: Other information**Full text of other abbreviations**

Aquatic Chronic : Long-term (chronic) aquatic hazard
 Flam. Liq. : Flammable liquids
 Repr. : Reproductive toxicity
 GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
 GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-

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tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

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

3

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Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

Classification of the mixture:

Aquatic Chronic 2

H411

Classification procedure:

Calculation method

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

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GB / EN

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

Trade name : HANSA SP 1080

Substance name : Siloxanes and Silicones, ethoxylated propoxylated

CAS-No. : 128192-17-6

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

Use of the Sub-stance/Mixture : Textile auxiliary
 Raw material for textile auxiliaries
 Raw material for care products formulae
 Additive for paints and lacquers
 Additive for lubricants and greases
 Additive for aqueous resin systems
 Auxiliary for the paper industry
 Construction auxiliary
 Coatings

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier**

CHT Germany GmbH
 Bismarckstraße 102
 72072 Tübingen
 Germany
 Tel.: +49 7071 154 0
 info@cht.com

CHT Switzerland AG
 Kriessernstrasse 20
 9462 Montlingen
 Switzerland
 Tel.: +41 71 763 88 11
 info.switzerland@cht.com

CHT UK Bridgwater Ltd.
 Showground Road
 Bridgwater TA6 6AJ
 United Kingdom
 Tel.: +44 1278 411 400
 info.uk@cht.com

Importer : -
 -
 -
 -
 -
 -

Responsible Department : CHT Germany GmbH
 CHT Switzerland AG
 Product Safety
 sds.germany@cht.com
 sds.switzerland@cht.com

1.4 Emergency telephone number

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Emergency telephone number : +1 703 527 3887 CHEMTREC (International, 24 hours)
+44 20 3807 3798 CHEMTREC (United Kingdom, 24 hours)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Substance name : Siloxanes and Silicones, ethoxylated propoxylated

CAS-No. : 128192-17-6

Chemical nature : Polyethermodified polysiloxane

Components

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Chemical name	CAS-No. EC-No.	Concentration (% w/w)
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	556-67-2 209-136-7	$\geq 0.25 - < 1$
PBT and vPvB substance :		
decamethylcyclopentasiloxane (REACH SVHC Candidate List)	541-02-6 208-764-9	$\geq 0.1 - < 1$
dodecamethylcyclohexasiloxane (REACH SVHC Candidate List)	540-97-6 208-762-8	$\geq 0.1 - < 1$

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : In case of skin contact remove mechanically with cloth or paper.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If symptoms persist, call a physician.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Foam
- Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica

5.3 Advice for firefighters

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

Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
Normal measures for preventive fire protection.

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Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breathe vapours, aerosols. Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do always store in containers which correspond to the original ones. Keep container tightly closed.

Further information on storage conditions : Store container in a well ventilated position. Store in a cool, dry area.

Advice on common storage : No special precautions required.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Workers	Inhalation	Long-term systemic effects	73 mg/m3
	Workers	Inhalation	Long-term local effects	73 mg/m3
	Consumers	Inhalation	Long-term systemic effects	13 mg/m3
	Consumers	Inhalation	Long-term local effects	13 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3.7 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	Fresh water	1.5 µg/l
	Marine water	0.15 µg/l
	STP	10 mg/l
	Fresh water sediment	3 mg/kg dry weight (d.w.)
	Marine sediment	0.3 mg/kg dry weight (d.w.)
	Soil	0.54 mg/kg dry weight (d.w.)
	Secondary Poisoning	41 mg/kg food

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8.2 Exposure controls**Engineering measures**

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Goggles (EN 166)

Hand protection

Material : PVC
Break through time : > 480 min
Glove thickness : >= 0.5 mm
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.

Skin and body protection : Wear suitable protective clothing (EN 14605).

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
Combination filter A/P (EN 141)

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

Appearance : liquid

Colour : colourless, yellow

Odour : slight, characteristic

pH : Not applicable substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 107 °C
Method: ISO 2719

Evaporation rate : Not applicable

Upper explosion limit / Upper flammability limit : Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Density	:	1 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	300 - 800 mPa.s (20 °C) Method: Brookfield 50 rpm
Viscosity, kinematic	:	not determined
Oxidizing properties	:	Not applicable

9.2 Other information

Flammability (liquids)	:	Sustains combustion
Conductivity	:	Not determined
Particle Size Distribution	:	Not applicable
Self-ignition	:	not auto-flammable

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

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

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10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: Argument by analogy

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Acute oral toxicity : LD50 Oral (Rat, male): 4,800 mg/kg
Method: OECD Test Guideline 401
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,375 mg/kg
Method: OECD Test Guideline 402

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 8.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Test substance: Aerosol

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product:**

Remarks : Prolonged skin contact may cause skin irritation.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Remarks : Contact with eyes may cause irritation.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation**Product:**

Remarks : No known sensitising effect.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

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dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Germ cell mutagenicity**Product:**

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

Carcinogenicity**Product:**

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

Reproductive toxicity**Product:**

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

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

Further information**Product:**

Remarks : If used and handled according to specifications, the product does not have any harmful effects according to our experience

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and the information provided to us.

SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : Remarks: No data is available on the product itself.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.
- Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.
- Toxicity to microorganisms :
Remarks: According to the previous knowledge no damaging effects will occur to purification plant, if used according to instructions.

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.015 mg/l
Exposure time: 48 h
Test Type: flow-through test
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- EC50 (Pseudokirchneriella subcapitata (algae)): > 0.022 mg/l
Exposure time: 96 h
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : NOEC: >= 0.0044 mg/l
Exposure time: 93 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.0015 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 10

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): >16 µg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD 204
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): >2,9 µg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): >12 µg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 2,000 mg/l
Exposure time: 3 h
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: >= 14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=15 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): >2 µg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Not classified due to data which are conclusive although insufficient for classification.
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : >=14 µg/l
Exposure time: 90 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >=4,6 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Ecotoxicology Assessment

- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability**Product:**

- Biodegradability : Remarks: No data is available on the product itself.
- Physico-chemical removability : Remarks: May be separated mechanically in waste water plants.
The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

12.3 Bioaccumulative potential**Product:**

- Bioaccumulation : Remarks: No data is available on the product itself.

Components:**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**

- Partition coefficient: n-octanol/water : log Pow: 6.98 (21.7 °C)

decamethylcyclopentasiloxane (REACH SVHC Candidate List):

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Partition coefficient: n-octanol/water : log Pow: 8.023
Method: OECD Test Guideline 123

dodecamethylcyclohexasiloxane (REACH SVHC Candidate List):

Partition coefficient: n-octanol/water : log Pow: 8.87 (23.6 °C)

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : Remarks: Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

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14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(octamethylcyclotetrasiloxane)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(octamethylcyclotetrasiloxane)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Segregation group : -

IATA (Cargo)

Packing instruction (cargo aircraft) : 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

SAFETY DATA SHEET**HANSA SP 1080**

Version Revision Date:
9.1 05.05.2023

Date of last issue: 06.04.2022
Date of first issue: 10.08.2011

14.5 Environmental hazards**ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : see chapter 6 - 8

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

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

Remarks : Not applicable

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

Relevant EU provisions transposed through retained EU law

Other regulations:**15.2 Chemical safety assessment**

not required

SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-

SAFETY DATA SHEET**HANSA SP 1080**

Version 9.1 Revision Date: 05.05.2023

Date of last issue: 06.04.2022
Date of first issue: 10.08.2011

rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

- Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.
- Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.
- Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

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

GB / EN

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

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

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

	Place of receipt
	CFS BREMEN

Ocean vessel	Port of loading
SANTA VIOLA	HAMBURG

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

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

B/L No.
ALM249776

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526005

Copy

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 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

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
ITW AUTOMOTIVE PRODUCTS MEXICO ALTAMIRA MEXICO 4384324 4384325 4384326 4384327 4384328 STOWED INTO CONTAINER NO.: TRHU4361356	14 PALLETS	AUTOMOTIVE SPARE PARTS HS CODE: 39263000		2581,000	12,529
				SEAL : WWA030053819	
CHT DE MEXICO VIA ALTAMIRA TORREON MEXICO	7 PALLETS	3 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASIOXANE), 9, III, (+107.00 C C.C.), MARINE POLLUTANT 1 PLASTIC JERRICAN UN 3H1 HANSA CARE 2050 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYDIMETHYLSIOXANE, DIQUATERNARY, OCTAMETHYLCY CLOTETRASIOXANE), 9, III, (+100.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 HANSA OPTIMIZE A 1055 HS CODE: 34024200 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYETHER SIOXANE), 9, III, (+100.00 C C.C.), MARINE POLLUTANT 3 PLASTIC DRUMS UN 1H2 HANSA SP 1090 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASIOXANE), 9, III, (+103.00 C C.C.), MARINE POLLUTANT 4 PLASTIC DRUMS UN 1H2 HANSA SP 1080 HS CODE: 39100000 UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAMETHYL CYCLOTETRASIOXANE), 9, III, (+107.00 C C.C.), MARINE POLLUTANT 2 PLASTIC DRUMS UN 1H2 DURON OF 3201 HS CODE: 34039100 1 PLASTIC DRUMS UN 1H2 HANSA CARE 7140 ECO		3935,890	8,677

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
		HS CODE: 38249996 3 PLASTIC DRUMS UN 1H2 SPACTIVE CT 5085 HS CODE: 39100000 1 PLASTIC DRUMS UN 1H2 CHT-ANTIFOAM BSN HS CODE: 39100000 10 PLASTIC DRUMS UN 1H2 HANSA LPW 780 HS CODE: 34024200 2 PLASTIC DRUMS UN 1H2 HANSA SP 1080D HS CODE: 39100000			
STOWED INTO CONTAINER NO.: TRHU4361356				SEAL : WWA030053819	
SOLVAY FLOUR GMBH MEXICO ALTAMIRA PO 4514116083	1 PALLET	33 BUCKET NOCOLOK FLUX PASTE S01-23 CS IN 20 KG PE PAIL HS CODE: 38109099		723,000	1,884
STOWED INTO CONTAINER NO.: TRHU4361356				SEAL : WWA030053819	
TOTAL		22 PACKAGES		7239,890 KGS	23,090 CBM

Shipper
APC LOGISTICS GERMANY
HALSKESTR. 32
40880 RATINGEN
GERMANY
CTC: LISA SCHWABE
TAX-ID:DE324954295

Consigned to order of
EUROPARTNERS MEXICO, S.A. DE C.V.
TELS: (52)(81) 82202630
AV. REVOLUCION 649
COLONIA JARDIN ESPANOL MONTERREY
NUEVO LEON MEXICO, C.P. 64820
RFC: EME020824U4A

Notify Party and address
SAME AS CONSIGNEE

B/L No.
ALM249785

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526006

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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. VKI 10016497	Quantity of Goods 6 PALLETS)	Description of Goods PUMP HOUSING HS CODE: 84139100	Gross weight, kg. 2072,160
			Measurement, m ³ 3,744
STOWED INTO CONTAINER NO.: TRHU4361356			SEAL : WWA030053819

TOTAL **6 PALLETS)** **2072,160 KGS** **3,744 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

Note:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
TAX ID:DE814839526

Consigned to order of
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZA VALETA 1306-A, INT. 132
COLONIA SANTA CRUZ BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM
Notify Party and address
SAME AS CONSIGNEE

B/L No. - A
ALM249789
FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526105

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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.	Quantity of Goods	Description of Goods	Said to contain
CARGO DETAILS AS PER ATTACHED STATEMENT			
		Gross weight, kg.	Measurement, m³

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.
Declared Value of the Goods (see clause 12) US\$ Ad valorem freight paid:		Place and date of issue BREMEN 07.07.2023
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		Signed for the Carrier
		SACO Shipping GmbH as agent of carrier SACO SHIPPING LINE LIMITED

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
PLASTIC OMNIUM MEXICO INV: 35075	1 PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 870829		426,000	0,672
STOWED INTO CONTAINER NO.: TGHU6063472				SEAL : WWA030053818	
PLASTIC OMNIUM MEXICO DN: 45157	1 PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 392690		91,000	1,560
STOWED INTO CONTAINER NO.: TRHU4361356				SEAL : WWA030053819	
PLASTIC OMNIUM MEXICO INV: 2306058	2 PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 392690		346,000	2,616
STOWED INTO CONTAINER NO.: TGHU6063472				SEAL : WWA030053818	
PLASTIC OMNIUM MEXICO PL: 0001715645	1 PACKAGE	MOTOR CAR ACCESSORIES HS-CODE: 848140		178,000	1,444
STOWED INTO CONTAINER NO.: TRHU4361356				SEAL : WWA030053819	
TOTAL		5 PACKAGE		1041,000 KGS	6,292 CBM

Shipper
ALPHA TRANS AS AGENT OF
BLUE ARROW CONTAINER LINE LTD.
RM 907, 9/F., CHEVALIER COMMERCIAL
CENTER, 8 WANG HOI ROAD
KOWLOON BAY, KOWLOON, HONG KONG
TAX ID:DE174811897

Consigned to order of
CARGO Y SERVICIOS INTERNACIONALES,
S.A. DE C.V.
RCF CSI010716Q89
CALLE NORTE 176 NR. 436
COL. PENSADOR MEXICANO
15510 CIUDAD DE MEXICO, CMX

Notify Party and address
SAME AS CONSIGNEE
RFC: CSI 010716 Q89
PHONE: 52 55 26432100

B/L No.
ALM249791

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
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WOODEN PACKAGING OR FROM
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PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

3/07/BRE/526007

Copy

		Place of receipt BREMEN CFS				
Ocean vessel SANTA VIOLA		Port of loading HAMBURG				
Port of discharge ALTAMIRA		Place of delivery SAN LUIS POTOSI DAP		Freight payable BREMEN	Number of original Bills of Lading 0/ZERO	
Marks and Nos. SMR AUTOMOTIVE	Quantity of Goods 2	PALLETS	Description of Goods GRANULATE TEREZ PA66 7510 GF50 HS CODE: 39081000	Said to contain	Gross weight, kg. 2268,000	Measurement, m³ 4,695

ANY STORAGE WHICH SHOULD
OCCURE HAS TO BE BILL
DIRECTLY FROM SACO TO
ALPHA TRANS

STOWED INTO CONTAINER NO.: TRHU4361356

SEAL : WWA030053819

TOTAL	2 PALLETS	2268,000 KGS	4,695 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:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

Shipper
ALPHA TRANS AS AGENT OF
BLUE ARROW CONTAINER LINE LTD.
RM 907, 9/F., CHEVALIER COMMERCIAL
CENTER, 8 WANG HOI ROAD
KOWLOON BAY, KOWLOON, HONG KONG
TAX ID:115/150/51408

Consigned to order of
CARGO Y SERVICIOS INTERNACIONALES,
S.A. DE C.V.
RCF CSI010716Q89
CALLE NORTE 176 NR. 436
COL. PENSADOR MEXICANO
15510 CIUDAD DE MEXICO, CMX MEXICO
RFC: CSI 010716 Q89

Notify Party and address
SAME AS CONSIGNEE
RFC: CSI 010716 Q89
PHONE: 52 55 26432100

B/L No.
ALM249807

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526010

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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. PLASTIVALOIRE MEXIKO SA DE CV AV. CRC. SAN CRISTOBAL NORTE 100-B 78423 SAN LUIS POTOSI MEXIKO STOWED INTO CONTAINER NO.: TRHU4361356	Quantity of Goods 5 PACKAGES)	Description of Goods THREADED BUSH SK2174-1 BUTCH NUMBER 2314400015, 2315800017 AS PER PACKING SLIP 20064483 HS CODE: 73181900	Said to contain Gross weight, kg. 2544,800 Measurement, m ³ 3,312

SEAL : WWA030053819

TOTAL **5 PACKAGES)** **2544,800 KGS** **3,312 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

Note:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED

Shipper
O.T.S. ASTRACON
INTL. AIR+SEA FORWARDER GMBH
KONSUL-SMIDT-STRASSE 19
28217 BREMEN
GERMANY
TAX ID:DE813138075

Consigned to order of
SENATOR INTERNACIONAL, S.A. DE C.V.
PROL. LOS SOLES 200 701
COL. VALLE ORIENTE
SAN PEDRO GARZA GARCIA, NL 66269
MEXICO
TAX-ID: SIN990927BY1

Notify Party and address
SAME AS CONSIGNEE
TAX-ID: SIN990927BY1

B/L No.
ALM249832

FMC Organization No. 025875



General Agent
SACO Shipping GmbH
Wollkaemmereistrasse 1
21107 Hamburg - Germany

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

3/07/BRE/526011

Copy

		Place of receipt BREMEN CFS	
Ocean vessel SANTA VIOLA		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. MAHLE COMPONENTES DE MOTOR RAMOR ARIZPE PO: 4501257527 KIND ORDER NO. 1277941 NO. 1 MADE IN GERMANY STOWED INTO CONTAINER NO.: TRHU4361356	Quantity of Goods 10 PACKAGES	Description of Goods HARDENED USN RINGS PO 4501257527 HS CODE:73269092	Said to contain Gross weight, kg. 7208,000 Measurement, m ³ 4,637

SEAL : WWA030053819

TOTAL **10 PACKAGES** **7208,000 KGS** **4,637 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

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

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

Note:

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

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

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

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

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

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

Place and date of issue
BREMEN 07.07.2023

Signed for the Carrier



SACO Shipping GmbH

as agent of carrier SACO SHIPPING LINE LIMITED