

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 1-11-2018 Revision date: 16-7-2020 Supersedes: 9-11-2018 Version: 2.0

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

: Lubricant

### **1.1. Product identifier**

Product form Trade name Product code Vaporizer Product group	<ul> <li>Mixture</li> <li>Electric Spray</li> <li>09.20.08</li> <li>Container fitted with a sealed spray attachment</li> <li>Trade product</li> </ul>

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

#### 1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use, Professional use, Consumer use

# 1.2.2. Uses advised against

No additional information available

### **1.3. Details of the supplier of the safety data sheet**

Kroon Oil BV Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

### **1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H statements : see section 16	

### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

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## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2	2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine; Amines, N-(C16-18 (even numbered) and C18-unsatd. alkyl) trimethylenedi-, ethoxylated(NLP)
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P101 - If medical advice is needed, have product container or label at hand.</li> <li>P102 - Keep out of reach of children.</li> <li>P260 - Do not breathe spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

## 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

## Not applicable

## 3.2. Mixtures

## Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS-No.) 1174522-15-6 (EC-No.) 926-141-6 (REACH-no) 01-2119456620-43	50 – 80	Asp. Tox. 1, H304
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	(CAS-No.) 110-25-8 (EC-No.) 203-749-3 (REACH-no) 01-2119488991-20	1 – 2,5	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
Tributyl phenol polyglycol ether	(CAS-No.) 9046-09-7	1 – 2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Amines, N-(C16-18 (even numbered) and C18- unsatd. alkyl) trimethylenedi-, ethoxylated(NLP)	(CAS-No.) 1290049-56-7 (EC-No.) 800-029-6 (REACH-no) 01-2119962190-43	1 – 2,5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 STOT RE 1, H372 Aquatic Chronic 3, H412

#### Full text of H-statements: see section 16

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## SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Irritation. Repeated exposure may cause skin dryness or cracking.</li> <li>Serious damage to eyes.</li> <li>Risk of lung oedema.</li> </ul>

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>		
5.2. Special hazards arising from the substance or mixture			
Fire hazard Hazardous decomposition products in case of fire	<ul> <li>Combustible liquid.</li> <li>Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.</li> </ul>		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipn	nent and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment a	nd cleaning up		
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>		
6.4. Reference to other sections			

For further information refer to section 13.

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SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions Storage temperature	<ul> <li>Store locked up. Store in a well-ventilated place. Keep cool.</li> <li>&lt; 40 °C</li> </ul>
7.3. Specific end use(s)	

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Electric Spray	
EU - Occupational Exposure Limits	
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m³ - ACGIH TLV (inhalable fraction).

## 8.2. Exposure controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.35		EN ISO 374

Eye protection:			
Safety glasses			
Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

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Personal protective equipment symbol(s):



## Environmental exposure controls:

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Colour Odour Odour threshold pH	: colourless to slightly yellow. : characteristic. : No data available : No data available
Odour threshold	: No data available
	. No data available
рп	
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	No data available
Boiling point	: 203 – 238 °C
Flash point	: 79 °C
Critical temperature	: > 200 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 0,3 hPa at 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,81 g/cm³ at 20 °C
Solubility	: Water: Insoluble / Slightly miscible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 20,5 mm²/s (40 °C) - ASTM D7279
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0,5 vol %
Upper explosive limit (UEL)	: 6,5 vol %

### 9.2. Other information

VOC content

: 583,2 g/l

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## **10.2. Chemical stability**

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

Reacts violently with (strong) oxidizers.

**10.4. Conditions to avoid** 

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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# **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

ECTION 11: Toxicological information	n
11.1. Information on toxicological effects	
cute toxicity (oral) cute toxicity (dermal) cute toxicity (inhalation)	: Not classified : Not classified : Not classified
lydrocarbons, C11-C14, n-alkanes, isoalka	anes, cyclics, < 2% aromatics (1174522-15-6)
D50 oral rat	> 5000 mg/kg (OECD 401 method)
D50 dermal rabbit	> 5000 mg/kg (OECD 402 method)
C50 inhalation rat (mg/l)	> 5000 g/m³
Z)-N-methyl-N-(1-oxo-9-octadecenyl)glyci	ne (110-25-8)
D50 oral rat	> 5000 mg/l (OECD 420 method)
C50 inhalation rat (mg/l)	1,01 – 1,85 mg/l/4h (OECD 403 method)
ributyl phenol polyglycol ether (9046-09-7	7)
D50 oral rat	> 2000 mg/kg (OECD 401 method)
D50 dermal rat	> 2000 mg/kg (OECD 402 method)
Amines, N-(C16-18 (even numbered) and C	18-unsatd. alkyl) trimethylenedi-, ethoxylated(NLP) (1290049-56-7)
D50 oral rat	200 – 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 (Acute Toxicity (Oral))
kin corrosion/irritation erious eye damage/irritation espiratory or skin sensitisation erm cell mutagenicity arcinogenicity	<ul> <li>Causes skin irritation.</li> <li>Causes serious eye damage.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
eproductive toxicity	: Not classified
TOT-single exposure	: Not classified
TOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
lydrocarbons, C11-C14, n-alkanes, isoalka	anes, cyclics, < 2% aromatics (1174522-15-6)
IOAEL (oral, rat, 90 days)	> 5000 mg/kg bodyweight/day (OECD 408 method)
spiration hazard	: May be fatal if swallowed and enters airways.
Electric Spray	
/aporizer	Container fitted with a sealed spray attachment
/iscosity, kinematic	< 20,5 mm²/s (40 °C) - ASTM D7279

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# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-15-6)	
LC50 fish	> 1000 mg/l Oncorhynchus mykiss - 96h
EC50 Daphnia	> 1000 mg/l Daphnia magna - 48h
ErC50 (algae)	> 1000 mg/l Pseudokirchneriella subcapitata - 72h

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine (110-25-8)	
LC50 fish	9,3 mg/l (96h, Leuciscus idus) [EU Method C.1]
EC50 Daphnia	0,43 mg/l (48h, Daphnia magna) (OECD 202 method)
EC50 72h algae (1)	6,3 mg/l (72h, Desmodesmus subspicatus) [Directive 67/548/EEC Annex V C.3.]
NOEC (acute)	> 0,43 mg/l (Danio rerio, 96h) (OECD 203 method)

Amines, N-(C16-18 (even numbered) and C18-unsatd. alkyl) trimethylenedi-, ethoxylated(NLP) (1290049-56-7)	
LC50 fish	130 µg/l
EC50 Daphnia	310 µg/l
EC50 72h algae (1)	0,16 mg/l

# 12.2. Persistence and degradability

Hydrocarbons, C11-C14, n-alkanes, isoalkane	s, cyclics, < 2% aromatics (1174522-15-6)
Persistence and degradability	Readily biodegradable.

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine (110-25-8)	
Chemical oxygen demand (COD)	2,4 g O <sub>2</sub> /g substance
Biodegradation	85,2 % (28d) (OECD 301B method)

Tributyl phenol polyglycol ether (9046-09-7)	
Chemical oxygen demand (COD)	2,394 g O <sub>2</sub> /g substance
Biodegradation	≈ 30 % (OECD 302B method)
12.3. Bioaccumulative potential	

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine (110-25-8)	
Partition coefficient n-octanol/water (Log Pow)	3,5 – 4,2 (20°C) [EU Method A.8]

Amines, N-(C16-18 (even numbered) and C18-unsatd. alkyl) trimethylenedi-, ethoxylated(NLP) (1290049-56-7)	
Partition coefficient n-octanol/water (Log Pow)	2,8 @25°C

# 12.4. Mobility in soil

## No additional information available

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12.5. Results of PBT and vPvB assessment	
Component	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-15-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods HP Code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause sk irritation or damage to the eye.</li> <li>HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.</li> <li>HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for on or more sectors of the environment</li> </ul>

# **SECTION 14: Transport information**

n accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

# 14.6. Special precautions for user

**Overland transport** Not regulated Transport by sea Not regulated Air transport Not regulated Inland waterway transport Not regulated **Rail transport** Not regulated

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

Not applicable

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# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content	:	583,2 g/l
Child-resistant fastening	:	Applicable
Tactile warning	:	Applicable

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

# **SECTION 16: Other information**

Indication of cha	Indication of changes:			
Section	Changed item	Change	Comments	
	Vaporizer	Modified		
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified		
2.1	Adverse physicochemical, human health and environmental effects	Modified		
2.2	Hazard statements (CLP)	Modified		
2.2	Precautionary statements (CLP)	Modified		
3	Composition/information on ingredients	Modified		
4.1	First-aid measures general	Added		
4.1	First-aid measures after skin contact	Added		
4.1	First-aid measures after eye contact	Added		
4.1	First-aid measures after ingestion	Added		
4.1	First-aid measures after inhalation	Added		
4.2	Symptoms/effects after skin contact	Added		
4.2	Symptoms/effects after eye contact	Added		
4.2	Symptoms/effects after ingestion	Added		

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6.1	Emergency procedures	Modified	
7.1	Precautions for safe handling	Modified	
9.1	Critical temperature	Added	
9.1	Boiling point	Modified	
9.2	VOC content	Modified	
12.1	Ecology - general	Modified	
13.1	H code	Added	
15.1	VOC content	Modified	
16	Abbreviations and acronyms	Modified	

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Inland WaterwaysADREuropean Agreement concerning the International Carriage of Dangerous Goods by ReadATEAcute Toxicity EstimateBCFBioconcentration factorCLPClassification Labelling Packaging Regulation; Regulation (EC) No 1272/2008DMELDerived Minimal Effect levelDNELDerived Minimal Effect levelEC50Median effective concentrationIARCInternational Agency for Research on CancerIATAInternational Arr Transport AssociationINDGMedian lefthal doseLOS0Median lefthal doseLOAELLowest Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentPBTPeristent Bioaccumulative ToxicPNERegulations concerning the International Carriage of Dangerous Goods by RailVPVBVery Persistent and Very BioaccumulativeSIVBiological limit valueCAS-No.Compation for Conomic Co-operation and Restriction of Chemicals Regulation (EC) No 1907/2006RibRegulations concerning the Internat	Abbreviations and acronyms:	
ATEAcute Toxicity EstimateBCFBioconcentration factorCLPClassification Labelling Packaging Regulation; Regulation (EC) No 1272/2008DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC50Median effective concentrationIARCInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median effective concentrationID50Median effective Science ScienceLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Fusiluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF         Bioconcentration factor           CLP         Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008           DMEL         Derived Minimal Effect level           DNEL         Derived-No Effect Level           EC50         Median effective concentration           IARC         International Agency for Research on Cancer           IATA         International Maritime Dangerous Goods           LC50         Median lethal concentration           IDG         International Maritime Dangerous Goods           LC50         Median lethal dose           LC50         Median lethal dose           LCAEL         Lowest Observed Adverse Effect Level           NOAEC         No-Observed Adverse Effect Level           NOAEL         No-Observed Effect Concentration           NOEC         No-Observed Effect Concentration           NOEC         No-Observed Effect Concentration           NOEC         Organisation for Economic Co-operation and Development           PBT         Persistent Bioaccumulative Toxic           PNEC         Regulations concerning the International Carriage of Dangerous Goods by Rail           vPvB         Very Persistent and Very Bioaccumulative           BLV         Biological limit value           CAS-No.         Chernical Ab	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLPClassification Labeling Packaging Regulation; Regulation (EC) No 1272/2008DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC50Median effective concentrationIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRLACHRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeSLVBiological limit valueCAS-No.Chemical Abstract Service numberEN-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	ATE	Acute Toxicity Estimate
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ECS0Median effective concentrationIARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLCS0Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENGoupantional Exposure LimitSDSSafety Data Sheet	DMEL	Derived Minimal Effect level
IARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal concentrationLD64LLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegulation, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBBiological limit valueCAS-No.Chemical Abstract Service numberEV-No.European Community numberENGcupational Exposure LimitSDSSafety Data Sheet	DNEL	Derived-No Effect Level
IATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationOAELNo-Observed Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDVery Persistent and Very BioaccumulativeVPVBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European StandardCPLOccupational Exposure LimitSDSSafety Data Sheet	EC50	Median effective concentration
IMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDVery Persistent and Very BioaccumulativevPvBVery Persistent and Very BioaccumulativeELVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	IARC	International Agency for Research on Cancer
LC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	ΙΑΤΑ	International Air Transport Association
LD50Median lethal doseLDAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	IMDG	International Maritime Dangerous Goods
LOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	LC50	Median lethal concentration
NOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect ConcentrationNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	LD50	Median lethal dose
NOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberENEuropean Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	LOAEL	Lowest Observed Adverse Effect Level
NOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENGccupational Exposure LimitSDSSafety Data Sheet	NOAEC	No-Observed Adverse Effect Concentration
OECDOrganisation for Economic Co-operation and DevelopmentPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENGuzpational Exposure LimitSDSSafety Data Sheet	NOAEL	No-Observed Adverse Effect Level
PBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	NOEC	No-Observed Effect Concentration
PNECPredicted No-Effect ConcentrationREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENOccupational Exposure LimitSDSSafety Data Sheet	OECD	Organisation for Economic Co-operation and Development
REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	РВТ	Persistent Bioaccumulative Toxic
RIDRegulations concerning the International Carriage of Dangerous Goods by RailvPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	PNEC	Predicted No-Effect Concentration
vPvBVery Persistent and Very BioaccumulativeBLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
BLVBiological limit valueCAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
CAS-No.Chemical Abstract Service numberEC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	vPvB	Very Persistent and Very Bioaccumulative
EC-No.European Community numberENEuropean StandardOELOccupational Exposure LimitSDSSafety Data Sheet	BLV	Biological limit value
EN     European Standard       OEL     Occupational Exposure Limit       SDS     Safety Data Sheet	CAS-No.	Chemical Abstract Service number
OEL     Occupational Exposure Limit       SDS     Safety Data Sheet	EC-No.	European Community number
SDS Safety Data Sheet	EN	European Standard
	OEL	Occupational Exposure Limit
WGK Water Hazard Class	SDS	Safety Data Sheet
	WGK	Water Hazard Class

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.