

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 15-5-2018 Revision date: 11-6-2024 Supersedes version of: 20-9-2022 Version: 1.5

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : VatOil HydraMax HVLP ISO 32

Product code : VI.10.07
Type of product : Lubricants
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Hydraulic oil

#### 1.2.2. Uses advised against

No additional information available

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

VatOil

Dollegoorweg 15 NL 7602 EC Almelo Netherlands

T 0031 (0)546 81 81 65

vib@vatoil.com

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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Component		
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# **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]
Distillates (petroleum), hydrotreated light naphthenic (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375- 34	10 – 20	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	1 – 5	Asp. Tox. 1, H304

Comments : The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

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.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this

material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions. Symptoms/effects after eye contact : None under normal conditions.

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Symptoms/effects after ingestion : None under normal conditions.

#### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

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 equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

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".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.

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Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Keep container closed when not in use. Keep in a cool, well-ventilated place away from

heat.

Storage temperature

: 0 - 40 °C

Packaging materials

: Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

#### VatOil HydraMax HVLP ISO 32

#### **EU - Indicative Occupational Exposure Limit (IOEL)**

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).

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

## 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

# Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

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ye protection			
Type Field of application Characteristics Standard			
Safety glasses	Droplet	clear	EN 166

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

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

#### Other skin protection

#### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

# Environmental exposure controls:

Avoid release to the environment.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Yellow.
Odour : characteristic.
Odour threshold : Not available
Melting point : Not applicable

Freezing point : -39 °C - ASTM D5950 (pour point)

Boiling point : Not available Flammability : Non flammable.

Explosive properties : Presents no particular fire or explosion hazard.

Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : 190 °C - ASTM D92 (COC)

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available
t : Not available

Viscosity, kinematic : 33,3 mm²/s (40 °C) - ASTM D7042 Solubility : Water: Insoluble / Slightly miscible

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available

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Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 0 %

# **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

No dangerous reactions known under normal conditions of use. 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

#### 10.6. Hazardous decomposition products

No decomposition if stored normally.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5,53 mg/l/4h

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5,53 mg/l/4h

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified Aspiration hazard : Not classified

VatOil Hy	ydraMax I	HVLP ISC	32
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33,3 mm<sup>2</sup>/s (40 °C) - ASTM D7042 Viscosity, kinematic

### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Viscosity, kinematic < 20,5 mm<sup>2</sup>/s Aliphatic, alicyclic or aromatic hydrocarbon Yes

#### Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Viscosity, kinematic 9 mm<sup>2</sup>/s

#### 11.2. Information on other hazards

No additional information available

# **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.

Hazardous to the aquatic environment, short-term

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

stillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LC50 - Fish [1]	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
EC50 - Crustacea [1]	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
EC50 72h - Algae [1]	> 100 mg/l	
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)	
NOEC chronic crustacea	10 mg/l (Daphnia magna, 21d) (OECD 211 method)	
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)	
LC50 - Fish [1]	> 100 mg/l (96 h)	
EC50 - Crustacea [1]	> 10 g/l	
EC50 72h - Algae [1]	> 100 mg/l	
NOEC (acute)	≥ 100 (72h)	

# 12.2. Persistence and degradability

atOil HydraMax HVLP ISO 32		
Persistence and degradability	Not rapidly degradable	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Persistence and degradability	Not rapidly degradable	
Biodegradation	31 % (28d) (OECD 301F method)	
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)  Persistence and degradability  Not readily biodegradable, Inherently biodegradable.		

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#### 12.3. Bioaccumulative potential

#### Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Bioaccumulative potential Bioaccumulative potential.

#### 12.4. Mobility in soil

#### Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Ecology - soil Insoluble in water.

# 12.5. Results of PBT and vPvB assessment

	Component		
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	Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	

#### 12.6. Endocrine disrupting properties

No additional information available

# 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Do not re-use empty containers.

European List of Waste (LoW, EC 2000/532) : 13 01 10\* - mineral based non-chlorinated hydraulic oils

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID n	14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippin	g name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard o	class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable Not applicable Not applicable Not applicable					
14.5. Environmental haz	14.5. Environmental hazards					
Not applicable	Not applicable Not applicable Not applicable Not applicable Not applicable					

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

#### 14.6. Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### **Inland waterway transport**

Not applicable

#### Rail transport

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), hydrotreated light naphthenic	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### VOC Directive (2004/42)

VOC content : 0 %

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#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 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:

Distillates (petroleum), hydrotreated light naphthenic

# **SECTION 16: Other information**

Indication of ch	anges		
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
	Type of product	Added	
1.2	Function or use category	Removed	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Added	
4.2	Symptoms/effects after skin contact	Added	
4.2	Symptoms/effects after ingestion	Added	
4.2	Symptoms/effects after eye contact	Added	
4.2	Symptoms/effects after inhalation	Added	
5.2	Explosion hazard	Added	
5.2	Fire hazard	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
5.3	Firefighting instructions	Added	
6.1	Protective equipment	Added	
6.1	Emergency procedures	Added	
6.1	General measures	Added	
6.3	For containment	Added	
7.1	Additional hazards when processed	Added	
7.2	Packaging materials	Added	
7.2	Technical measures	Added	
8.2	Personal protective equipment	Added	
13.1	Additional information	Added	
13.1	Sewage disposal recommendations	Added	
13.1	Regional waste regulation	Added	

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Indication of changes			
Section	Changed item	Change	Comments
13.1	H code	Added	

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 ATE Acute Toxicity Estimate BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EN European Standard International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritime Dangerous Goods LC50 Median lethal concentration ID50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOCE No-Observed Adverse Effect Level NOCE No-Observed Adverse Effect Concentration RID Regulations for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Starfer of the Concentration CAS-No. Chemical Starfer of the Concentration CAS-No. Chemical Starfer of the Carriage of Cas-No. Chemical Starfer of the Cas-No. Chemical S	Abbreviations and	d acronyms:
ATE Acute Toxicity Estimate BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number ECSO Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LCSO Median lethal concentration LDSO Median lethal concentration LDSO Median lethal concentration LOSO Median lethal concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOEC No-Observed Adverse Effect Level NOEC No-Observed Adverse Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EN European Standard International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BLV Biological limit value  BOD Biochemical oxygen demand (BOD)  COD Chemical oxygen demand (COD)  DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  EN European Standard  International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal dose  LO50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	ATE	Acute Toxicity Estimate
BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived Minimal Effect Level EC-No. European Community number ECSO Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritine Dangerous Goods LC50 Median lethal concentration LD50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOCE No-Observed Adverse Effect Level NOEC Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	BCF	Bioconcentration factor
COD Chemical oxygen demand (COD)  DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  ECSO Median effective concentration  EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	BLV	Biological limit value
DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	BOD	Biochemical oxygen demand (BOD)
DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  Chemical Abstract Service number	COD	Chemical oxygen demand (COD)
EC-No. European Community number  EC50 Median effective concentration  EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Adverse Effect Level  NOEC Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	DMEL	Derived Minimal Effect level
EC50 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	DNEL	Derived-No Effect Level
EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	EC-No.	European Community number
IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	EC50	Median effective concentration
IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	EN	European Standard
IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	IARC	International Agency for Research on Cancer
LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	IATA	International Air Transport Association
LOSO Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	IMDG	International Maritime Dangerous Goods
LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	LC50	Median lethal concentration
NOAEC  No-Observed Adverse Effect Concentration  NOAEL  No-Observed Adverse Effect Level  NoEC  No-Observed Effect Concentration  OECD  Organisation for Economic Co-operation and Development  OEL  Occupational Exposure Limit  PBT  Persistent Bioaccumulative Toxic  PNEC  Predicted No-Effect Concentration  RID  Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS  Safety Data Sheet  STP  Sewage treatment plant  ThOD  Theoretical oxygen demand (ThOD)  TLM  Median Tolerance Limit  VOC  Volatile Organic Compounds  CAS-No.  Chemical Abstract Service number	LD50	Median lethal dose
NOAEL  No-Observed Adverse Effect Level  NOEC  No-Observed Effect Concentration  OECD  Organisation for Economic Co-operation and Development  OEL  Occupational Exposure Limit  PBT  Persistent Bioaccumulative Toxic  PNEC  Predicted No-Effect Concentration  RID  Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS  Safety Data Sheet  STP  Sewage treatment plant  ThOD  Theoretical oxygen demand (ThOD)  TLM  Median Tolerance Limit  VOC  Volatile Organic Compounds  CAS-No.  Chemical Abstract Service number	LOAEL	Lowest Observed Adverse Effect Level
NOEC No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	NOAEC	No-Observed Adverse Effect Concentration
OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	NOAEL	No-Observed Adverse Effect Level
OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	NOEC	No-Observed Effect Concentration
PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	OECD	Organisation for Economic Co-operation and Development
PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	OEL	Occupational Exposure Limit
RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	РВТ	Persistent Bioaccumulative Toxic
SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	PNEC	Predicted No-Effect Concentration
STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	SDS	Safety Data Sheet
TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	STP	Sewage treatment plant
VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number	ThOD	Theoretical oxygen demand (ThOD)
CAS-No. Chemical Abstract Service number	TLM	Median Tolerance Limit
	VOC	Volatile Organic Compounds
N.O.C. Net Otherwise Considerd	CAS-No.	Chemical Abstract Service number
Not Otherwise Specified	N.O.S.	Not Otherwise Specified
vPvB Very Persistent and Very Bioaccumulative	vPvB	Very Persistent and Very Bioaccumulative
ED Endocrine disrupting properties	ED	Endocrine disrupting properties

11-6-2024 (Revision date) 12-6-2024 (Printing date)

EN (English)

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# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH210	Safety data sheet available on request.	
H304	May be fatal if swallowed and enters airways.	

Safety Data Sheet (SDS), EU

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.

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