

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 31-10-2018 Revision date: 6-1-2023 Supersedes version of: 15-11-2022 Version: 3.2

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

## 1.1. Product identifier

Product form : Mixture

Trade name : Gear Grease EP 0

Product code : 07.10.07
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture : Lubricant Function or use category : Lubricant

#### 1.2.2. Uses advised against

No additional information available

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

Kroon Oil BV B.V.
Dollegoorweg, 15
NL- 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) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	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]

Precautionary statements (CLP) : P102 - Keep out of reach of children.

EUH-statements : EUH208 - Contains Naphthenic acids, zinc salts, basic. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

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#### 2.3. Other hazards

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

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 is 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

: This product is a lithium grease based on mineral oil with additives The mineral oil in this product contains less than 3% PCA (IP 346).

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	< 2,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Naphthenic acids, zinc salts, basic	CAS-No.: 84418-50-8 EC-No.: 282-762-6 REACH-no: 01-2119988500- 34	< 1	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	( 50 ≤C < 100) Eye Irrit. 2, H319 ( 80 ≤C ≤ 100) Eye Dam. 1, H318

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 possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes

minimum). Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. 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

No additional information available

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#### 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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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 equipment and emergency procedures

General measures : May be dangerously slippery if spilled.

6.1.1. For non-emergency personnel

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".

# 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

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

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Keep containers closed. Store in a well-ventilated place. Keep cool.

Storage temperature : < 45 °C

## 7.3. Specific end use(s)

No additional information available

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#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

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

No additional information available

## 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:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

Eye protection			
Туре	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

#### 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

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#### 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-brown. Appearance Paste. Odour characteristic. Odour threshold Not available Melting point Not applicable Freezing point : Not available Boiling point : Not available Flammability : Not applicable **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit Not available Flash point · > 150 °C Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available

Viscosity, kinematic : > 20,5 mm²/s @ 40°C

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 : < 1000 kg/m³ @25°C
Relative density : Not available
Relative vapour density at 20°C : Not available
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 : 0,01 %

## **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.

#### 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

Strong oxidizing agents.

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## 10.6. Hazardous decomposition products

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

## **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

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	
LD50 oral rat	3100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1800 - 5100
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

# Naphthenic acids, zinc salts, basic (84418-50-8)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other:
LD50 oral	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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

		dithiophosphate)	

NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-
	Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

#### **Gear Grease EP 0**

Viscosity, kinematic > 20,5 mm²/s @ 40°C

## Naphthenic acids, zinc salts, basic (84418-50-8)

Viscosity, kinematic	74,18 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result:
	'other:'

#### 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

(acute)

: Not classified

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Hazardous to the aquatic environment, long-term : Not classified

(on one)	10110)		
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophos	inc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)		
LC50 - Fish [1]	46 mg/l Test organisms (species): Cyprinodon variegatus		
LC50 - Fish [2]	46 mg/l Test organisms (species):		
EC50 - Crustacea [1]	1,2 mg/l		
Naphthenic acids, zinc salts, basic (84418-50	-8)		
LC50 - Fish [1]	≈ 5,62 mg/l Test organisms (species): Pimephales promelas		
EC50 72h - Algae [1]	≈ 29,6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)		
EC50 72h - Algae [2]	≈ 17,7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names:		

Raphidocelis subcapitata, Selenastrum capricornutum)

Raphidocelis subcapitata, Selenastrum capricornutum)

Raphidocelis subcapitata, Selenastrum capricornutum)

≈ 29,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names:

≈ 18,1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names:

# 12.2. Persistence and degradability

EC50 96h - Algae [1]

EC50 96h - Algae [2]

Gear Grease EP 0	
Persistence and degradability	Not readily biodegradable.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)  Biodegradation 5 % (closed bottle 28d.)	

## 12.3. Bioaccumulative potential

Gear Grease EP 0		
Bioaccumulative potential	No data available.	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)		
Partition coefficient n-octanol/water (Log Pow)	3,59	
Partition coefficient n-octanol/water (Log Kow)	3,6 (octanol/water 0.1d)	

## 12.4. Mobility in soil

Gear Grease EP 0	
Ecology - soil	Product adsorbs onto the soil. Insoluble in water.

#### 12.5. Results of PBT and vPvB assessment

## **Gear Grease EP 0**

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. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

Other adverse effects : No data available.

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## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods : Avoid release to the environment. Dispose of contents/container in accordance with

licensed collector's sorting instructions.

Additional information : Do not re-use empty containers.

European List of Waste (LoW) code : 13 08 99\* - wastes not otherwise specified

# **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 regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping 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. Maritime transport in bulk according to IMO instruments

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

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **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)

#### VOC Directive (2004/42)

VOC content : 0,01 %

#### Biocide Regulation (528/2012)

Child-resistant fastening : Not applicable Tactile warning : Not applicable

#### **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

## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
1.2	Function or use category	Added	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
5.1	Suitable extinguishing media	Modified	
5.1	Unsuitable extinguishing media	Added	
5.2	Hazardous decomposition products in case of fire	Modified	
7.2	Storage temperature	Added	
10.3	Possibility of hazardous reactions	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
13.1	Waste treatment methods	Modified	

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  ATE Acute Toxicity Estimate  BCF Bicconcentration factor  BLV Biological limit value  BOD Biochemical oxygen demand (BOD)  CCD Chemical oxygen demand (COD)  DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  EC-SO Median effective concentration  EN European Standard  International Agrecy for Research on Cancer  IATA International Agrecy for Research on Cancer  IATA International Maritime Dangerous Goods  LCSO Median lethal concentration  IMDG International Maritime Dangerous Goods  LCSO Median lethal concentration  IADS Median lethal concentration  IADS Median lethal Concentration  IADS No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  OECD Organisation for Economic Co-operation and Development  OECD Organisation for Economic Co-operation and Development  OECD Perdicted 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 Votalia Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPVB Very Persistent and Very Bioaccumulative	Abbreviations and a	cronyms:
ACTE Acute Toxicity Estimate  BCF Bioconcentration factor  BLV Biological limit value  BOD Biochemical oxygen demand (BOD)  COD Chemical oxygen demand (BOD)  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  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  IADS Median lethal concentration  NOAEC No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOEC No-Observed Adverse Effect Level  NOEC No-Observed Adverse Effect Level  NOEC No-Observed Effect Concentration  GEL 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 Valatile Organic Compounds  CAS-No. Chemical Abstract Service number  NO.S. Not Otherwise Specified  verybe Veryb Very Persistent and Very Bioaccumulative	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-Mo Effect Level           DNEL         Derived-Mo 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           LC50         Median lethal dose           LCAEL         Lowest Observed Adverse Effect Level           NOAEC         No-Observed Adverse Effect Level           NOAEC         No-Observed Adverse Effect Level           NOEC         No-Observed Effect Concentration           OEC         Organisation for Economic Co-operation and Development           OEL         Occupational Exposure Limit           PNEC         Predicted No-Effect Concentration           RID         Regulations concerning the International Carriage of Dan	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  IARC International Agency for Research on Cancer  IATA International Maritime Dangerous Goods  LC50 Median lethal concentration  IADS Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  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  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	ATE	Acute Toxicity Estimate
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 EC5 Median effective concentration EN European Standard LARC International Agrictory fasearch on Cancer LATA International Agrictory fasearch on Cancer LATA International Agrictory fasearch on Cancer LATA International Maritime Dangerous Goods LC50 Median lethal dose LC50 No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Effect Concentration NOEC No-Observed Effect Concentration PDEC Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Biosoccumulative 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 N.O.S. Not Otherwise Specified VPVB Very Persistent and Very Bioaccumulative	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  International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Air Transport Association  IMDG Median iethal concentration  LCSO Median iethal concentration  LDSO Median iethal 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  N.O.S. Not Otherwise Specified  vPVB Very Persistent and Very Bioaccumulative	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 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  LC50 Median lethal dose  LC6L Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Level  NOAEC 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  PET 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  N.O.S. Not Otherwise Specified  vPVB Very Persistent and Very Bioaccumulative	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 Concentration  NOAEL No-Observed Adverse Effect Level  NOEC 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  PPEC 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  N.O.S. Not Otherwise Specified  vPVB Very Persistent and Very Bioaccumulative	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 LCAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC Porganisation for Economic Co-operation and Development OEL Occupational Exposure Limit PRI 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 N.O.S. Not Otherwise Specified vPVB Very Persistent and Very Bioaccumulative	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           OEC         No-Observed Effect Concentration           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           NO 5.         Very Persis	DNEL	Derived-No Effect Level
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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  NOAEL No-Observed Adverse Effect Level  OEC 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  VCC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	EN	European Standard
INDG 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  N.O.S. Not Otherwise Specified  VPVB Very Persistent and Very Bioaccumulative	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  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	IATA	International Air Transport Association
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  N.O.S. Not Otherwise Specified  vevb Very Persistent and Very Bioaccumulative	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  N.O.S. Not Otherwise Specified  VPVB Very Persistent and Very Bioaccumulative	LC50	Median lethal concentration
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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  N.O.S.  Not Otherwise Specified  VPVB  Very Persistent and Very Bioaccumulative	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  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	NOAEL	No-Observed Adverse Effect Level
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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  N.O.S. Not Otherwise Specified  VPVB Very Persistent and Very Bioaccumulative	OEL	Occupational Exposure Limit
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STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  VPVB Very Persistent and Very Bioaccumulative	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
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TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  VPVB Very Persistent and Very Bioaccumulative	STP	Sewage treatment plant
VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	ThOD	Theoretical oxygen demand (ThOD)
CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	TLM	Median Tolerance Limit
N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	VOC	Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative	CAS-No.	Chemical Abstract Service number
	N.O.S.	Not Otherwise Specified
ED Endocrine disrupting properties	vPvB	Very Persistent and Very Bioaccumulative
	ED	Endocrine disrupting properties

6-1-2023 (Revision date) 6-1-2023 (Printing date)

EN (English) 10/11

# Safety Data Sheet

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

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
EUH208	Contains Naphthenic acids, zinc salts, basic. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Sens. 1B	Skin sensitisation, category 1B	

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.