

Safety Data Sheet

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

Issue date: 17/05/2018. Revision date: 20/09/2023. Supersedes version of: 21/04/2023. Version: 1.7

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

Product form	Mixture
Trade name	RIDEX PLUS AD 5W-40
Product code	99.00.73
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	Engine oil
Function or use category	Lubricants and additives

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

RIDEX GmbH
Josef-Orlopp-Straße 55
10365 Berlin, Germany
www.ridex.eu
+49 302 202 72 34
info@ridex.de

1.4. Emergency telephone number

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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, 8 a.m.–10 p.m., 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	EUH208 – contains benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. EUH210 – safety data sheet available on request.
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2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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 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

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3.1. Substances

Not applicable.

3.2. Mixtures

Comments	Highly refined mineral oils and additives.
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	25-50	Asp. Tox. 1, H304
Blend of mineral oils* (Note L)	–	10-20	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	CAS-No.: 68784-31-6 EC-No.: 272-238-5 REACH-no: 01-2119657973-23	0.3-2.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	CAS-No.: 722503-68-6 EC-No.: 682-816-2	0.1-1	Skin Sens. 1B, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	CAS-No.: 68784-31-6 EC-No.: 272-238-5 REACH-no: 01-2119657973-23	(10 ≤ C < 100) Eye Dam. 1, H318 (10 ≤ C < 100) Eye Irrit. 2, H319
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	CAS-No.: 722503-68-6 EC-No.: 682-816-2	(2 ≤ C < 100) Skin Sens. 1B, H317

Comments	The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.
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*: contains one or more of the following CAS-numbers (REACH registration numbers): 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

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 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	Call a poison centre or a doctor if you feel unwell.

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

Symptoms/effects	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**

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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	Combustible liquid.
Hazardous decomposition products in case of fire	Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide, and other toxic gases.

5.3. Advice for firefighters

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Use a self-contained breathing apparatus and complete protective clothing.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures	Ventilate spillage area.
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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".
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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 with an absorbent material.
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Other information

Dispose of materials or solid residues at an authorised 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

Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions

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

Storage temperature

0–40°C

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**

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RIDEX PLUS AD 5W-40	
EU – Indicative Occupational Exposure Limit (IOEL)	
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols 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 symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	Clear	EN 166

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8.2.2.2. Skin protection**Skin and body protection:**

Wear suitable protective clothing.

Hand protection:

Protective gloves

Hand protection					
Type	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	Brown
Odour	Characteristic
Odour threshold	Not available
Melting point	Not applicable

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Freezing point	-39°C – ASTM D5950 (pour point)
Boiling point	Not available
Flammability	Not applicable
Explosive properties	Presents no particular fire or explosion hazard.
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	230°C – ASTM D92 (COC)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	83.9 mm ² /s (40°C) – ASTM D7042
Solubility	Water: Insoluble / Slightly miscible
Partition coefficient n-octanol/water (Log K _{ow})	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	0.856 kg/l (15°C) – ASTM D4052
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%
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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) oxidisers.

10.4. Conditions to avoid

None under the 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

Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

Oral LD ₅₀ (rat)	2900 mg/kg
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Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

Dermal LD ₅₀ (rabbit)	> 5000 mg/kg body weight. Animal: rabbit. Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Oral LD ₅₀ (rat)	> 5000 mg/kg
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Dermal LD ₅₀ (rabbit)	> 2000 mg/kg
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Inhalation LC ₅₀ (rat)	> 5.53 mg/l/4h
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Blend of mineral oils*

Oral LD ₅₀ (rat)	> 5000 mg/kg; data from similar product
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Dermal LD ₅₀ (rabbit)	> 5000 mg/kg; data from similar product
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Inhalation LC ₅₀ (rat) dust/mist	> 5 mg/l/4h; data from similar product
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Skin corrosion/irritation	Not classified
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Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

pH	≈ 7. Temp.: 25°C. Concentration: (≈) 0,00116 other. Remarks on result: other
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Serious eye damage/irritation	Not classified (The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonises (or decreases the severity of) the eye irritation of the ZnDTP.)
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Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

pH	≈ 7. Temp.: 25°C. Concentration: (≈) 0,00116 other. Remarks on result: other
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Respiratory or skin sensitisation	Not classified
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Germ cell mutagenicity	Not classified
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Carcinogenicity	Not classified
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Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified

Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

NOAEL (oral, rat, 90 days)	125 mg/kg body weight. Animal: rat. Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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Aspiration hazard	Not classified
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Viscosity, kinematic	83.9 mm ² /s (40°C) – ASTM D7042
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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Viscosity, kinematic	< 20.5 mm ² /s
Aliphatic, alicyclic, or aromatic hydrocarbon	Yes

Blend of mineral oils*

Viscosity, kinematic	< 20.5 mm ² /s
Aliphatic, alicyclic, or aromatic hydrocarbon	Yes

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 does it cause long-term adverse effects in the environment.
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Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

LC ₅₀ – fish [1]	46 mg/l; test organisms (species): Cyprinodon variegatus
EC ₅₀ – crustacea [1]	75 mg/l (48 h, Daphnia magna)
EC ₅₀ – algae [1]	240 mg/l (72 h, Scenedesmus subspicatus)
Chronic NOEC (crustacea)	0.8 mg/l (21 d)

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

LC ₅₀ – fish [1]	> 100 mg/l (Pimephales promelas, 96 h) (OECD 203 method)
EC ₅₀ – crustacea [1]	> 10,000 mg/l (Gammarus pulex, 48 h) (OECD 202 method)
EC ₅₀ – algae [1]	> 100 mg/l (72 h)
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72 h) (OECD 201 method)
Chronic NOEC (crustacea)	10 mg/l (Daphnia magna, 21 d) (OECD 211 method)

Blend of mineral oils*

LC ₅₀ – fish [1]	> 100 mg/l. Data from similar product
EC ₅₀ – crustacea [1]	> 10,000 mg/l. Data from similar product
EC ₅₀ – algae [1]	> 100 mg/l (72 h). Data from similar product
Chronic NOEC (crustacea)	> 10 mg/l
Chronic NOEC (algae)	> 10 mg/l (Water flea (Daphnia magna), 21 d)

12.2. Persistence and degradability
RIDEX PLUS AD 5W-40

Persistence and degradability	Not rapidly degradable
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Phosphorodithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

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)

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6)

Persistence and degradability

Not rapidly degradable

Blend of mineral oils*

Persistence and degradability

Not rapidly degradable

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

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

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Waste treatment methods	Do not allow into drains or watercourses. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW, EC 2000/532)	13 02 05* – mineral-based non-chlorinated engine, gear, and lubricating oils.
HP Code	HP4 Irritant – skin irritation and eye damage: waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport.				
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

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

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)

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).

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%.

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).

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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
	Revision date	Modified	
	Supersedes	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	

Abbreviations and acronyms:

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
COD	Chemical Oxygen Demand
DMEL	Derived Minimal Effect Level
DNEL	Derived-No Effect Level
EC-No.	European Community Number
EC ₅₀	Median Effective Concentration

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Abbreviations and acronyms:	
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC ₅₀	Median Lethal Concentration
LD ₅₀	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
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
NOS	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

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Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2.
Asp. Tox. 1	Aspiration hazard, Category 1.
EUH208	Contains benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. 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.
H304	May be fatal if swallowed and enters airways.
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.
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.