

Safety Data Sheet

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

Issue date: 07/10/2009. Revision date: 29/09/2022. Supersedes version of: 23/11/2021. Version: 14.4

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

Product form	Mixture
Product name	RIDEX PLUS MTF 75W-90 GL-5
Product code	P40071-RID001
Product group	Blend

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
Industrial/professional use specifications	Non-dispersive use Used in closed systems
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 info@ridex.de	+49 302 202 72 34
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1.4. Emergency telephone number**Emergency number :**

+32 70 245 245

Belgian Anti-Poison Centre, Bruynstraat 1, 1120 Brussels

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412

Full text of H- and EUH-statements: see Section 16.

Adverse physicochemical, human health, and environmental effects

No additional information available.

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2.2. Label elements

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

Signal word (CLP)	–
Hazard statements (CLP)	H412 - Harmful to aquatic life with long-lasting effects.
Precautionary statements (CLP)	P273 - Avoid release to the environment. P501 - Dispose of contents and container at hazardous or special waste collection point, in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list made 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	The mineral oils in the product contain < 3% DMSO extract (IP 346)
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polysulphides, di-tert-Bu	CAS-No.: 68937-96-2 EC-No.: 273-103-3 REACH-No.: 01-2119540515-43	1–4.5	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-No.: 01-2119493620-38	0.1–0.99	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
(Z)-N-octadecenylpropane-1,3-diamine	CAS-No.: 7173-62-8 EC-No.: 230-528-9 REACH-No.: 01-2119487002-46	0.1–0.15	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-No.: 01-2119473797-19	0.01-0.015	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Polysulphides, di-tert-Bu	CAS-No.: 68937-96-2 EC-No.: 273-103-3 REACH-No.: 01-2119540515-43	(46 ≤ C < 100) Skin Sens. 1B, H317
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-No.: 01-2119493620-38	(9.39 ≤ C < 100) Skin Sens. 1, H317 (50 ≤ C < 100) Eye Dam. 1, H318 (50 ≤ C < 100) Eye Irrit. 2, H319

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	Not expected to require first-aid measures.
First-aid measures after skin contact	Wash skin with mild soap and water.
First-aid measures after eye contact	In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	Do not induce vomiting. Rinse mouth. Seek immediate medical advice/attention.

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

Symptoms/effects after inhalation	Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available.

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

Suitable extinguishing media	Water fog, foam, powder, dry chemical product.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Precautionary fire measures	Exercise caution when fighting any chemical fire.
Firefighting instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment, and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment	Wear suitable protective clothing and gloves.
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6.1.2. For emergency responders

Protective equipment	Wear suitable protective clothing and gloves.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

For containment	Contain and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	Detergent. Take up liquid spill into absorbent material: sand, saw dust, kieselguhr.
Other information	Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Handling temperature	< 40°C
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 temperature	≤ 40°C
Storage area	Store in a dry, cool, well-ventilated area.

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

No additional information available.

8.1.2. Recommended monitoring procedures

No additional information available.

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8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

Additional information	5 mg/m ³ for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).
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8.1.5. Control banding

No additional information available.

8.2. Exposure controls
8.2.1. Appropriate engineering controls

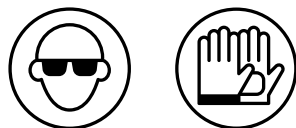
No additional information available.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses and gloves.

Personal protective equipment symbol(s):


8.2.2.1. Eye and face protection

No additional information available.

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	minimum (> 480 min, long-term exposure)	> 0.35		

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

No additional information available.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Brown
Appearance	Oily liquid
Odour	Characteristic
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Not available
Explosive limits	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	> 200°C at ASTM D92
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	83 mm ² /s at 40°C
Solubility	Slightly soluble, the product remains on the water surface
Partition coefficient n-octanol/water (Log K _{ow})	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	861 kg/m ³ at 15°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

No additional information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidisers, acids, bases.

10.6. Hazardous decomposition products

None under normal conditions.

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

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)	
Oral LD ₅₀ (rat)	1689 mg/kg OECD 401 - read across

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified

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Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	Not classified
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Phosphoric acid ester amine salt

NOAEL (oral, rat, 90 days)	150 mg/kg body weight/day at 28 d (OECD 407)
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(Z)-N-octadecenylpropane-1,3-diamine (7173-62-8)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	Not classified
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RIDEX PLUS MTF 75W-90 GL-5

Viscosity, kinematic	83 mm ² /s at 40°C
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11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information
12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long-lasting effects.

Polysulphides, di-tert-Bu (68937-96-2)

EC ₅₀ - crustacea [1]	63 mg/l
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Polysulphides, di-tert-Bu (68937-96-2)	
EC ₅₀ 72 h - algae [2]	> 100 mg/l
EC ₅₀ 96 h - algae [1]	> 10,000 mg/l Slib at 0.1 d

Phosphoric acid ester amine salt	
LC ₅₀ - fish [1]	24 mg/l at 4 d Oncorhynchus mykiss
LC ₅₀ - fish [2]	8.5 mg/l Pimephales promelas at 4 d
EC ₅₀ - crustacea [1]	91.4 mg/l Daphnia magna
EC ₅₀ 96 h - algae [1]	6.4 mg/l Selenastrum capricornutum
Chronic NOEC	3.2 mg/l Oncorhynchus mykiss at 4 d
Chronic NOEC (crustacea)	0.12 mg/l Daphnia magna at 21 d
Chronic NOEC (algae)	1.7 mg/l Selenastrum capricornutum at 4 d

(Z)-N-octadecenylpropane-1,3-diamine (7173-62-8)	
LC ₅₀ - fish [1]	> 0.1 mg/l (Brachydanio rerio)
EC ₅₀ - crustacea [1]	> 0.01 mg/l (Daphnia magna)
EC ₅₀ 72 h - algae [1]	> 0.01 mg/l
Chronic NOEC (crustacea)	> 0.001 at 21 d (Daphnia maga)

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)	
LC ₅₀ - fish [1]	0.11 mg/l (Pimephales promelas)
LC ₅₀ - fish [2]	1.3 mg/l (Oncorhynchus mykiss)
LC ₅₀ - other aquatic organisms [1]	0.9 mg/l (Cyprinodon variegatus)
EC ₅₀ - crustacea [1]	0.011 mg/l (Daphnia Magna)
EC ₅₀ 72 h - algae [1]	> 0.13 mg/l (Desmodesmus subspicatus)
Chronic NOEC (crustacea)	0.013 mg/l (Daphnia magna at 21 d)

12.2. Persistence and degradability

RIDEX PLUS MTF 75W-90 GL-5	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.

Polysulphides, di-tert-Bu (68937-96-2)	
Biodegradation	13% OECD TG at 28 d

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Phosphoric acid ester amine salt

BOD (% of ThOD)	3.6% ThOD at 28 d inherent sediment
Biodegradation	7.4% Sturm (28 d) OECD TG 301B

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential**Polysulphides, di-tert-Bu (68937-96-2)**

Partition coefficient n-octanol/water (Log K _{ow})	6
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(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

Bioconcentration factor (BCF REACH)	> 500
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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**

Additional information	Dispose in a safe manner in accordance with local/national regulations.
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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 applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard 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 hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

14.6. Special precautions for user

Overland transport	Transport by sea	Air transport	Inland waterway transport	Rail transport
No data available	No data available	No data available	No data available	No data available

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

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15.1.1. EU Regulations**REACH Annex XVII (Restriction List)**

Contains no REACH substances with Annex XVII restrictions.

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances.

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list.

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance subject to Regulation (EU) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors).

15.1.2. National regulations

Germany	
Water hazard class (WGK)	WGK 2, Significantly hazardous to water (classification according to AwSV, Annex 1).
List of sensitising substances (TRGS 907)	Contains sensitising substances according TRGS 907.
Hazardous Incident Ordinance (12. BImSchV)	Is not subject of the Hazardous Incident Ordinance (12. BImSchV).
Netherlands	
SZW-lijst van kankerverwekkende stoffen	Polysulphides, di-tert-Bu is listed
SZW-lijst van mutagene stoffen	Polysulphides, di-tert-Bu is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	None of the components are listed
Denmark	
Danish National Regulations	Pregnant/breastfeeding women working with the product must not be in direct contact with the product.
Switzerland	
Storage class (LK)	LK 10/12 - Liquids

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
15.1	Swedish product registration number	Modified	

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
TWA	Time Weighted Average
TLV	Threshold Limit Value
ASTM	American Society for Testing and Materials
ADR	Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADNR	Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
STEL	Short Term Exposure Limit
LD ₅₀	Median Lethal Dose
ATE	Acute Toxicity Estimate
LC ₅₀	Median Lethal Concentration
EC ₅₀	Median Effective Concentration

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Other information:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any guarantee, express or implied, regarding its correctness. The conditions or methods of handling, storage, use, or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4.
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2.
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3.
Asp. Tox. 1	Aspiration hazard, Category 1.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
H411	Toxic to aquatic life with long-lasting effects.
H412	Harmful to aquatic life with long-lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B.
Skin Sens. 1	Skin sensitisation, Category 1.
Skin Sens. 1B	Skin sensitisation, Category 1B.
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2.

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Full text of H- and EUH-statements:

STOT SE 3

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation.

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.