

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 4-9-2023 Revision date: 21-6-2024 Supersedes version of: 10-4-2024 Version: 2.1

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Kroon-Oil Coolant SP 18
UFI	: 2970-S9CS-M00G-79PT
Product code	: 09.10.20
Type of product	: Heat Transfer Fluids
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 Main use category Use of the substance/mixture Function or use category

- : Industrial use, Professional use, Consumer use
- : Antifreeze and coolant
- : Anti-freezing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon-Oil 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/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]

Acute toxicity (oral), Category 4 H302 Specific target organ toxicity – Repeated exposure, Category 2 H373 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

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2.2. Label elements

Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP)	: Warning
Contains	: 1,2-ethanediol
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.
	P102 - Keep out of reach of children.
	P260 - Do not breathe vapours, mist.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P314 - Get medical advice/attention if you feel unwell.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.
2.2 Other hazards	

2.3. Other hazards

Contains no PBT and/or 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 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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-ethanediol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	< 80	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081- 35	< 0,3	Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411
Acetic acid, (2-benzothiazolylthio)-, potassium salt	-	< 0,3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Chronic 3, H412

Comments

: The product has a bitter taste for safety reasons, in case it is swallowed accidentally

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

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SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Rinse mouth. If you feel unwell, seek medical advice.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation	 No additional information available. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 None under normal conditions. None under normal conditions. Ingestion may cause nausea, vomiting and diarrhea.

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

Treat symptomatically. Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. 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. Do not breathe dust/fume/gas/mist/vapours/spray.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.			
6.2. Environmental precautions				

Avoid release to the environment.

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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 storag	e
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Provide good ventilation in process area to prevent formation of vapour. 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, incl	uding any incompatibilities
Technical measures Storage conditions	 Keep in a cool, well-ventilated place away from heat. Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature Packaging materials	 : 0 – 40 °C : 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

Kroon-Oil Coolant SP 18		
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).	
1,2-ethanediol (107-21-1)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	52 mg/m³ vapour	
Methyl-1H-benzotriazole (29385-43-1)		
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/m ³ - ACGIH TLV (inhalable fraction).	

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

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

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

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

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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 che	emical properties	
Physical state Colour Appearance Odour Odour threshold Melting point Freezing point Boiling point	 Liquid Green. fluorescent. characteristic. Not available Not applicable -36 °C 100 – 197 °C 	
Flammability Explosive properties Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature	 Not applicable Presents no particular fire or explosion hazard. Not available Not available 111 °C Derived from flash point MEG (CAS: 107-21-1). Because of the presence of water, a flashpoint cannot be measured. Not available 	
Decomposition temperature pH pH solution concentration Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle characteristics	 Not available 8,5 100 % Not available Water: Miscible in all proportions Not available Not available Not available 1,072 kg/l (15 °C) - ASTM D4052 Not available 	
9.2. Other information9.2.1. Information with regard to physical hazarNo additional information available	d classes	
9.2.2. Other safety characteristics VOC content	: 0%	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal condition	as of use, storage and transport.	
10.2. Chemical stability		
Stable under normal conditions.		

10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

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

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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 def	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified Not classified
Kroon-Oil Coolant SP 18	
ATE CLP (oral)	964,524 mg/kg bodyweight
1,2-ethanediol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight
LD50 oral	There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 30-100 milliliters. This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs.
LD50 dermal	3500 mg/kg bodyweight mouse
LC50 Inhalation - Rat	> 2,5 mg/l
Methyl-1H-benzotriazole (29385-43-1)	
LD50 oral rat	> 720 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1730 mg/m³ (1h)
Skin corrosion/irritation	: Not classified pH: 8,5
Methyl-1H-benzotriazole (29385-43-1)	
рН	5-6
Serious eye damage/irritation	: Not classified pH: 8,5
Methyl-1H-benzotriazole (29385-43-1)	
pH	5-6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
1,2-ethanediol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).

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1,2-ethanediol (107-21-1)		
STOT-repeated exposure May cause damage to organs (kidneys) through prolonged or repeated exposure (swallowed).		
Methyl-1H-benzotriazole (29385-43-1)		
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)	
Aspiration hazard :	Not classified	
1,2-ethanediol (107-21-1)		
Viscosity, kinematic	14,505 mm²/s	
Methyl-1H-benzotriazole (29385-43-1)		
Viscosity, kinematic	Not applicable	
11.2. Information on other hazards		

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

12.1. Loxicity	
Ecology - general : Hazardous to the aquatic environment, short-term : (acute) Hazardous to the aquatic environment, long-term : (chronic)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified
1,2-ethanediol (107-21-1)	
LC50 - Fish [1]	72860 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other:grenn algae
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
Methyl-1H-benzotriazole (29385-43-1)	
LC50 - Fish [1]	55 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Other aquatic organisms [1]	15,8 mg/l Test organisms (species): other aquatic crustacea:
EC50 - Other aquatic organisms [2]	8,58 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	53 mg/l Test organisms (species): Skeletonema costatum
LOEC (chronic)	37,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	18,4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	0,4 mg/l (21d)
NOEC chronic algae	1,18 mg/l 72 hours

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12.2. Persistence and degradability		
Kroon-Oil Coolant SP 18		
Persistence and degradability	Biodegradable.	
1,2-ethanediol (107-21-1)		
Persistence and degradability	Rapidly degradable	
Biodegradation	90 % > 10d (OECD 301A method)	
Methyl-1H-benzotriazole (29385-43-1)		
Persistence and degradability	Not rapidly degradable	
Acetic acid, (2-benzothiazolylthio)-, potassiu	n salt	
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
1,2-ethanediol (107-21-1)		
Partition coefficient n-octanol/water (Log Kow)	-1,36	
Methyl-1H-benzotriazole (29385-43-1)		
Partition coefficient n-octanol/water (Log Pow)	1,081 (25°C) [OECD 117]	
12.4. Mobility in soil		
1,2-ethanediol (107-21-1)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1	
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 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) 16 01 14* - antifreeze fluids containing dangerous substances : HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause HP Code specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

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accordance with ADR / IM	DG / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.1. UN number or ID r	number			
Not regulated for transport				
14.2. UN proper shippin	ig 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 ha	zards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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

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)	Kroon-Oil Coolant SP 18 ; 1,2-ethanediol ; Acetic acid, (2- benzothiazolylthio)-, potassium salt	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

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EU restriction list (REACH Annex XVII)			
Reference code	Applicable on Entry title or description		
3(c)	Acetic acid, (2- benzothiazolylthio)-, potassium salt	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 class 4.1	

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 %
Biocide Regulation (528/2012)		
Child-resistant fastening	:	Not applicable
Tactile warning	:	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

For the following substances of this mixture a chemical safety assessment has been carried out: Methyl-1H-benzotriazole

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
9.1	Flash point	Modified	
10.3	Possibility of hazardous reactions	Modified	
13.1	H code	Added	

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Abbreviations and a	cronyms:		
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		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	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		
РВТ	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		
ED	Endocrine disrupting properties		

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4	
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2	

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Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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.