

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878

Pro-Tec B 380



Version: 2.0

Revision Date: 26.08.2024

Print Date: 27.08.2024

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

1.1 Product identifier

Trade name : Pro-Tec B 380
Art.No. 55-645-306 (10 kg)
Art.No. 55-645-307 (60 kg)

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

Use of the : High speed grinding cooling agent for metalworking
Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Wintersteiger Sports GmbH
Wintersteigerstrasse 1
A-4910 Ried im Innkreis
Contact person : Zentrale Wintersteiger Sports GmbH
Telephone : +43 (0) 7752 919-0
E-mail address : sports@wintersteiger.com
Contact person product safety : Abteilung Produktsicherheit
E-mail address : sports@wintersteiger.com

1.4 Emergency telephone number

: Contact NHS Direct on 08454647 ((n°6362))

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

2-Aminoethanol; Ethanolamine
2-Methyl-2H-isothiazol-3-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation of polyglycols, anticorrosives plus anionic and additives

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Aminoethanol; Ethanolamine	141-43-5 205-483-3 01-2119486455-28	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 5

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		specific concentration limit STOT SE 3; H335 ≥ 5 %	
N-Methyldiethanolamine	105-59-9 203-312-7 603-079-00-5 01-2119488970-24	Eye Irrit. 2; H319	≥ 1 - < 2.5
Pyridine-2-thiol 1-oxide, sodium salt	3811-73-2 223-296-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10	≥ 0.1 - < 0.25
2-Methyl-2H-isothiazol-3-one	2682-20-4 220-239-6 01-2120764690-50	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 ≥ 0.0015 %	≥ 0.025 - < 0.1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : No special precautions required.
Call a physician if symptoms occur.

If inhaled : No special precautions required.

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- | | | |
|-------------------------|---|--|
| In case of skin contact | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| In case of eye contact | : | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| If swallowed | : | Immediately give large quantities of water to drink.
Do NOT induce vomiting.
Keep at rest.
Call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|-------|---|---|
| Risks | : | Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage. |
|-------|---|---|

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|------------------------------|---|---|
| Suitable extinguishing media | : | Alcohol-resistant foam
Carbon dioxide (CO ₂)
Dry powder
Water mist |
|------------------------------|---|---|

- | | | |
|--------------------------------|---|-----------------------|
| Unsuitable extinguishing media | : | High volume water jet |
|--------------------------------|---|-----------------------|

5.2 Special hazards arising from the substance or mixture

- | | | |
|---------------------------------------|---|---|
| Specific hazards during fire-fighting | : | Combustion may cause: |
| Hazardous combustion products | : | Carbon oxides
Nitrogen oxides (NO _x) |

5.3 Advice for firefighters

- | | | |
|---|---|---|
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Specific extinguishing methods | : | Use water spray to cool unopened containers. |
| Further information | : | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours or spray mist.
For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Follow the water regulations. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Protect from frost.

Advice on common storage : Incompatible with oxidizing agents.

Storage class : 12, Non Combustible Liquids

Recommended storage temperature : 5 - 40 °C

7.3 Specific end use(s)

Specific use(s) : High speed grinding cooling agent for metalworking

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Aminoethanol; Ethanolamine	141-43-5	TWA	1 ppm 2.5 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	3 ppm 7.6 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Triethanolamine	Workers	Inhalation	Long-term systemic effects	5 mg/m ³
	Workers	Inhalation	Long-term local effects	5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	6.3 mg/kg bw/day
N-Methyldiethanolamine	Workers	Inhalation	Long-term systemic effects	26 mg/m ³
	Workers	Skin contact	Long-term systemic effects	19 mg/kg bw/day
2-Aminoethanol; Ethanolamine	Workers	Inhalation	Long-term local effects	3.3 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Triethanolamine	Fresh water	0.32 mg/l
	Marine water	0.032 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1.7 mg/kg
	Marine sediment	0.17 mg/kg
	Soil	0.151 mg/kg
N-Methyldiethanolamine	Fresh water	0.1 mg/l
	Marine water	0.0125 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.89 mg/kg
	Marine sediment	0.111 mg/kg
	Soil	0.119 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

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Hand protection	
Material	: Protective gloves complying with EN 374.
Break through time	: > 60 min
Protective index	: Class 3
Material	: Nitrile rubber
Glove thickness	: 0.4 mm
Material	: butyl-rubber
Glove thickness	: 0.5 mm
Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
Skin and body protection	: Chemical resistant protective clothing according to DIN EN 13034 (Type 6) Long sleeved clothing
Respiratory protection	: Breathing apparatus needed only when aerosol or mist is formed.
Filter type	: Combined ammonia/amines and organic vapour type (AK)
Protective measures	: When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan.

Environmental exposure controls

Water	: Do not flush into surface water or sanitary sewer system.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: clear, light yellow
Odour	: characteristic
Melting point/freezing point	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined

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Flash point : Not applicable

Auto-ignition temperature : not determined

pH : 10.2

Viscosity
Viscosity, kinematic : similar to water

Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-
octanol/water : Not applicable

Vapour pressure : not determined

Density : 1.045 g/cm³ (20 °C)

Relative vapour density : not determined

9.2 Other information

Explosives : No data available

Metal corrosion rate : Not corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

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10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

2-Aminoethanol; Ethanolamine:

Acute oral toxicity : LD50 (Rat): 1,515 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1.3 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 1,000 mg/kg

N-Methyldiethanolamine:

Acute oral toxicity : LD50 (Rat): 4,680 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 5,990 mg/kg

Pyridine-2-thiol 1-oxide, sodium salt:

Acute oral toxicity : LD50 (Rat, male and female): 656 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): 790 mg/kg

2-Methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat, male): 235 mg/kg

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LD50 (Rat, female): 183 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 242 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

Pyridine-2-thiol 1-oxide, sodium salt:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Pyridine-2-thiol 1-oxide, sodium salt:

Species : Rabbit
Exposure time : 24 h
Method : Draize Test
Result : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Pyridine-2-thiol 1-oxide, sodium salt:

Test Type : Maximisation Test
Species : Guinea pig
Remarks : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Pyridine-2-thiol 1-oxide, sodium salt:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Cell type: Bone marrow

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Method: Mutagenicity (micronucleus test)

Remarks: negative

2-Methyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Carcinogenicity

Based on available data, the classification criteria are not met.

Product:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Aminoethanol; Ethanolamine:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 170 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Information taken from reference works and the literature.

LC50 (Cyprinus carpio (Carp)): 349 mg/l

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Exposure time: 96 h
Test Type: semi-static test
Method: Tested according to Directive 92/69/EEC.

NOEC (*Oryzias latipes* (Orange-red killifish)): 1.2 mg/l
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 65 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 22 mg/l
Exposure time: 72 h
Method: Tested according to Directive 92/69/EEC.

EC50 (*Selenastrum capricornutum* (green algae)): 2.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): 110 mg/l
Exposure time: 16 h

EC20 (activated sludge): > 1,000 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209

EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.85 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 211

N-Methyldiethanolamine:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 1,466 mg/l
Exposure time: 96 h
Test Type: static test
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 233 mg/l
Exposure time: 48 h
Test Type: static test

NOEC (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus subspicatus*): 176 mg/l
Exposure time: 72 h
Method: DIN 38412

Toxicity to microorganisms : EC20 (activated sludge): > 1,000 mg/l
Exposure time: 30 min

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Method: 88/302/EC

Pyridine-2-thiol 1-oxide, sodium salt:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0066 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 0.022 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Selenastrum capricornutum (fresh water algae)): 0.46
plants mg/l
Exposure time: 72 h

M-Factor (Acute aquatic tox- : 100
icity)

M-Factor (Chronic aquatic : 10
toxicity)

2-Methyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.77 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.18 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.158
plants mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- : 1
icity)

Toxicity to microorganisms : EC50 (Pseudomonas putida): 2.3 mg/l
Exposure time: 16 h

M-Factor (Chronic aquatic : 1
toxicity)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

2-Aminoethanol; Ethanolamine:

Biodegradability : Result: rapidly biodegradable

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12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

N-Methyldiethanolamine:

Partition coefficient: n-octanol/water : log Pow: -1.08
Method: OECD Test Guideline 107

Pyridine-2-thiol 1-oxide, sodium salt:

Partition coefficient: n-octanol/water : log Pow: -3.8

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

12.7 Other adverse effects

Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Do not let product enter drains.
Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

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Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA_P (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
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.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
EUH071	:	Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317

Classification procedure:

Calculation method
Calculation method
Calculation method

GB / EN