

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

1.1. Product identifier

Product form : Mixture
Trade name : Ranman Top
Product code : IKF-916 160SC; IBE 3967
Type of product : SC (Suspension Concentrate)

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Belchim Crop Protection NV/SA
Technologielaan 7
B- 1840 Londerzeel
Belgium
T +32 (0)52 30 09 06 - F +32 (0)52 30 11 35
info@belchim.com - www.belchim.com

Marketing company

Belchim Crop Protection Limited
1b Fenice Court, Phoenix Park Eaton Socon, St. Neots
Cambridgeshire PE19 8EW
United Kingdom
T 01480 403333 - F 01480 403444
Info-uk@belchim.com - www.belchim.co.uk

1.4. Emergency telephone number

Emergency number : +32(0)14584545
24 H/7 days/English/French/German/Dutch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective gloves, face protection, protective clothing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

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P501 - Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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]
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide	CAS-No.: 120116-88-3 EC Index-No.: 616-166-00-8	10 – 20	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
1,1,1,3,5,5,5-Heptamethyl-3-(propyl(poly(EO))hydroxy)trisiloxane	CAS-No.: 67674-67-3	10 – 20	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt	CAS-No.: 81065-51-2	1 – 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Docusate sodium	CAS-No.: 577-11-7 EC-No.: 209-406-4	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	< 0,00046	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	< 0,00046	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

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	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with mild soap and water. In case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after skin contact	: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Symptoms/effects after eye contact	: Causes serious eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: All extinguishing agents can be used.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic and corrosive vapours may be released. Nitrous fumes. Sulphur oxides. Hydrofluoric Acid. hydrogenchloride. Carbon oxides (CO, CO ₂).
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5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
Protection during firefighting	: Gloves. Protective non-flammable clothing. Heat/fire exposure: compressed air/oxygen apparatus. Safety glasses.
Other information	: Do not dispose of fire-fighting water in the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area.
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6.1.1. For non-emergency personnel

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment	: Protective gloves. Protective clothing. Eye protection.
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6.2. Environmental precautions

Contain the spilled material by bunding. Contain leaking substance, pump over in suitable containers. Stop leak if safe to do so. Do not flush into surface water or sewer system. Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into absorbent material, e.g.: sand/earth. Shovel into suitable and closed container for disposal. Carefully collect remainder.
Methods for cleaning up	: Clean contaminated surfaces with an excess of water.
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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin.
Storage conditions : Keep the container hermetically sealed. Store at ambient temperature.
Maximum storage period : 2 year
Packaging materials : Keep only in 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

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Off-white.
Appearance	: Opaque.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: No data available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 79 °C
Auto-ignition temperature	: 436 °C
Decomposition temperature	: No data available
pH	: Not available
pH solution	: 7,17 (Aqueous solution 1%)
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 63 – 515 mPa.s (40°C); 156-914 mPa.s (20°C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1,0809 (20 °C)
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: 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

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

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10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Avoid formation of vapours.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5,915 mg/l (Aerosol) (OECD 403 method)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Irritating to rabbits on ocular application (OECD 405 method)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolyimidazole-1-sulfonamide (120116-88-3)	
NOAEL (chronic, oral, animal/male, 2 years)	> 171 mg/kg bodyweight /day (rat)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolyimidazole-1-sulfonamide (120116-88-3)	
NOAEL (animal/male, F0/P)	89 mg/kg bw/day (rat)
NOAEL (animal/male, F1)	89 mg/kg bw/day (rat)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolyimidazole-1-sulfonamide (120116-88-3)	
NOAEL (oral, rat, 90 days)	29,5 mg/kg bodyweight/day
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

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LC50 - Fish [1]	67,89 mg/l (96h) (Oncorhynchus mykiss) (OECD 203 method)
EC50 - Crustacea [1]	13,5 mg/l (48h) (Daphnia magna) (OECD 202 method)
ErC50 algae	48,71 mg/l (72h) (Pseudokirchneriella subcapitata) (OECD 201 method)
NOEC (acute)	0,5 mg/l (72 hours) (Pseudokirchneriella subcapitata) (OECD 201 method)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOEC chronic fish	0,09 mg/l (28d) (Pimephales promelas)
NOEC chronic crustacea	0,011 mg/l (21d) (Daphnia magna)
NOEC chronic algae	0,023 mg/l (72h) (Selenastrum capricornutum)

12.2. Persistence and degradability

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

Biodegradation	Not biodegradable
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Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)

Persistence and degradability	Not rapidly degradable.
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Docusate sodium (577-11-7)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

BCF - Fish [1]	286 (Oncorhynchus mykiss)
Partition coefficient n-octanol/water (Log Pow)	3,2 (24-25°C)

12.4. Mobility in soil

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,13
Ecology - soil	Product adsorbs onto the soil.

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of with domestic waste.
 Product/Packaging disposal recommendations : Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.
 European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances
 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

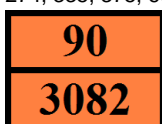
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 274, 335, 375, 601
 Orange plates :



EAC code : •3Z

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Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN) : M6

Number of blue cones/lights (ADN) : 0

Rail transport

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

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.

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	
1.1	Name	Modified	
3	Composition/information on ingredients	Modified	

Data sources : SDS of suppliers.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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

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Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
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 Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A

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.