

Safety Data Sheet

According to Regulation (EC) No 2020/878

FoliaStim Ultimate Liquid

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

1.1. Product identifier

Product form : Mixture

Trade name : Foliastim Ultimate Liquid

UFI : Q0PF-HDGX-U00E-P6HP

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 product : Chemical product

1.2.2. Uses advised against

Restrictions on use : Uses other than the identified uses are discouraged

1.3. Details of the supplier of the safety data sheet

Van Iperen International BV

Smidsweg 24

3273 LK Westmaas - Nederland

T +31 (0) 186 578 888 - F +31 (0) 186 573 452

info@iperen.com - www.vaniperen.com

1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

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

Skin sensitisation, Category 1 H317

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS07

CLP Signal word : Warning

Contains :Phosphoric acid, Copper chelate EDTANa2, 2-methyl-2H-isothiazol-3-one

Hazard statements (CLP) : H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling.

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

P302+P352 - IF ON SKIN: Wash with plenty of water.

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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid, 75%, aqueous solution substance with a Community workplace exposure limit (Note B)	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	5 - < 11	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Copper chelate EDTANa2	(CAS-No.) 14025-15-1 (EC-No.) 237-864-5 (REACH-no) 01-2119963944-23	1 - < 3	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
2-methyl-2H-isothiazol-3-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (REACH-no) 01-2120764690-50	< 0,1	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 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Phosphoric acid	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 100) Skin Corr. 1B, H314
2-methyl-2H-isothiazol-3-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (REACH-no) 01-2120764690-50	(0.0015 ≤ C < 100) Skin Sens. 1A, H317

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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 general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Soap may be used. Remove all contaminated clothing and footwear. Get medical advice if skin irritation persists.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : If victim conscious and alert, give 1-2 glasses of water to drink. If feeling unwell, seek medical advice. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation : May cause irritation to respiratory tract at exposure to high concentrations: dry/sore throat, coughing.

Symptoms/effects after skin contact : Slight irritation. Red skin. Allergic skin rash.

Symptoms/effects after eye contact : May cause irritation to the eyes: redness of the eye tissue, visual disturbances.

Symptoms/effects after ingestion : Nausea. Vomiting.

Chronic symptoms : On continuous/repeated exposure/contact: dry skin, skin rash/inflammation.

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

Follow the advices in chapter 4.1. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Extinguishing media for surrounding fires: all extinguishing media allowed.

Use fire extinguishing methods suitable to surrounding conditions

5.2. Special hazards arising from the substance or mixture

Fire hazard : Direct fire hazard: non combustible.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : On heating/burning: release of toxic and corrosive gases/vapours such as nitrogen oxides, phosphorus oxides, potassium oxides, carbon dioxide, carbon monoxide.

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind, consider evacuation and have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray.

Protection during firefighting : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Do not get in eyes, on skin, or on clothing. Keep away from naked flames/heat.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective gloves/protective clothing/eye protection as advised in section 8.

Emergency procedures : Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment : Wear protective gloves/protective clothing/eye protection as advised in section 8.

Emergency procedures : See the information in "For non-emergency personnel".

6.2. Environmental precautions

Stop leaks if possible. Dam up the liquid spill. Prevent spreading in sewers. Prevent soil and water pollution. Contain leaking substance, pump over in suitable containers. Turn leaking containers leak-side up to prevent the escape of liquid. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Any spillage should be cleaned up immediately. Collect spill in closed and suitable containers for disposal. Take up rest of liquid spill into absorbent material (sand, earth, vermiculite). Scoop absorbed substance into closing containers.

Methods for cleaning up : Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use sufficient ventilation. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection as advised in section 8.

Hygiene measures : Do not eat, drink or smoke during use. Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from food, drink and animal feedingstuffs. Do not discharge waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Storage conditions : Keep preferably in the original container.

Storage temperature : -5 – 30 °C

Heat and ignition sources : Keep substance away from: heat sources.

Information on mixed storage : Keep substance away from: oxidizing agents, (strong) acids, halogens, (strong) bases, reducing agents

Storage area : Store in dry, cool, well-ventilated area. Keep out of direct sunlight.

Special rules on packaging : Meet the legal requirements. Correctly labelled. Sealable. Secure fragile packagings in solid containers.

Packaging materials : Suitable material: synthetic material, HDPE, stainless steel.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)

EU IOEL TWA 1 mg/m³ EU; Time-weighted average exposure limit 8 h

EU IOEL STEL 2 mg/m³ EU; Short time value

2-methyl-2H-isothiazol-3-one (2682-20-4)

DNEL/DMEL (Workers)

Acute - local effects, inhalation 0.043 mg/m³

Long-term - local effects, inhalation 0.021

DNEL/DMEL (General population)

Acute - systemic effects, oral 0.053 mg/kg bw/day

Acute - local effects, inhalation 0.043 mg/m³

Long-term - systemic effects, oral 0.027 mg/kg bw/day

Long-term - local effects, inhalation 0.021 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 3.39 µg/l

PNEC aqua (marine water) 3.39 µg/l

Safety Data Sheet

According to Regulation (EC) No 2020/878

FoliaStim Ultimate Liquid

PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	No hazard identified
PNEC sediment (marine water)	No hazard identified
PNEC (Soil)	
PNEC soil	0.047 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	Not potentially bioaccumulable
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

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:

Protective clothing. Safety glasses. Gloves in accordance with European standard EN-16523-1.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Normal working clothes are suitable

Hand protection:

Gloves in accordance with European standard EN-16523-1

Material selection gloves: refer table below. Ask your gloves' supplier for advice. Non suitable materials are leather gloves

Type	Material	Permeation	Thickness (mm)	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,35	EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure adequate air ventilation. Mist formation: aerosol mask with filter type P2

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

In some cases process modifications will be necessary to reduce emissions to acceptable levels. Emissions from ventilation or work process equipment should be checked to ensure they comply with legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state / Appearance :	Liquid
Colour :	Dark brown.
Odour :	Characteristic.
Odour threshold :	No data available
pH :	4 – 6
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	No data available
Crystallization temperature :	-10 °C
Freezing point :	No data available
Boiling point :	ca 100 °C
Flash point :	No data available
Auto-ignition temperature :	No data available
Decomposition temperature :	≥ 60 °C
Flammability (solid, gas) :	No data available
Vapour pressure :	2300 Pa
Relative vapour density at 20 °C :	No data available
Relative density :	No data available
Density :	1.28 kg/l
Solubility :	Water: completely
Partition coefficient n-octanol/water (Log Pow) :	No data available
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

Explosive properties : Not explosive.
Oxidising properties : Not oxidising.
Explosive limits : No data available

9.2. Other information

Additional information: Refer to product datasheet

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (some) halogen compounds.

10.2. Chemical stability

The product is stable at normal handling and storage conditions. May sediment slightly after some time.

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours (oxides of nitrogen). This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.

10.4. Conditions to avoid

Avoid high temperatures. Temperatures lower than -5°C.

10.5. Incompatible materials

Keep substance away from: oxidizing agents, halogens, strong bases, strong acids, reducing agents.

10.6. Hazardous decomposition products

See Section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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)

Phosphoric acid (7664-38-2)

LD50 oral - Rat 300 – 2000 mg/kg (OECD 423 method)

Copper chelate EDTANa2 (14025-15-1)

LD50 oral - Rat 890 mg/kg (method similar to OECD 403 method)

LD50 dermal - Rabbit > 2000 mg/kg (Read-across; OECD 402 method)

LC50 Inhalation - Rat (Dust/Mist) > 5.3 mg/l/4h (OECD 436 method)

2-methyl-2H-isothiazol-3-one (2682-20-4)

LD50 oral - Rat 120 mg/kg

LD50 dermal - Rat 242 mg/kg

LC50 Inhalation - Rat (Dust/Mist) 0.34 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 4 – 6

Serious eye damage/irritation : Causes serious eye irritation.

pH: 4 – 6

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

2-methyl-2H-isothiazol-3-one (2682-20-4)

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Phosphoric acid (7664-38-2)

LOAEL (oral, rat, 90 days) 250 mg/kg bodyweight/day (OECD 422 method)

NOAEL (oral, rat, 90 days) 250 mg/kg bodyweight/day (OECD 422 method)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Phosphoric acid (7664-38-2)

EC50 - Crustacea > 100 mg/l (OECD 202 method)

ErC50 - Algae > 100 mg/l (OECD 201 method)

NOEC chronic - Algae 100 mg/l (Desmodosmus subspicatus; OECD 201 method)

Copper chelate EDTANa2 (14025-15-1)

LC50 - Fish 555 mg/l (Lepomis macrochirus)

EC50 - Crustacea 109 mg/l (Read-across EDTA-FeNa; OECD 202 method)

ErC50 - Algae 649 mg/l (Read-across EDTA-MnNa2; OECD 201 method)

NOEC chronic - Algae 15 mg/l (Read-across EDTA-MnNa2; OECD 201 method)

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

12.2. Persistence and degradability

Foliastim 5-5-5+TE
Persistence and degradability
Not established.
Phosphoric acid (7664-38-2)
Persistence and degradability
Biodegradability: not applicable.

12.3. Bioaccumulative potential

Foliastim 5-5-5+TE
Bioaccumulative potential
Bioaccumulation: not applicable.
Phosphoric acid (7664-38-2)
Bioaccumulative potential
No test data of component(s) available.
Copper chelate EDTANa2 (14025-15-1)
BCF - Fish 1.1 – 1.8
Partition coefficient n-octanol/water (Log Kow) < 3
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Foliastim 5-5-5+TE
Ecology - soil
Soluble in water.
Phosphoric acid (7664-38-2)
Ecology - soil
Solubility in water.

12.5. Results of PBT and vPvB assessment

Foliastim 5-5-5+TE
This mixture does not meet the PBT criteria of REACH regulation, annex XIII
This mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Component
Phosphoric acid (7664-38-2)
This substance does not meet the PBT criteria of REACH regulation, annex XIII
This substance does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : May cause eutrophication.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

European List of Waste (LoW) code : 02 01 09 - agrochemical waste other than those mentioned in 02 01 08
Depending on branch of industry and production process, also other EURAL codes may be applicable
Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty and rinsed containers can be disposed of as non-hazardous material or be returned for recycling.
Product/Packaging disposal recommendations : Do not discharge into drains or the environment. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
Additional information : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

SECTION 14: Transport information

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

14.1 UN number

UN-No. : Not regulated

14.2. UN proper shipping name

Proper Shipping Name : Not regulated

14.3. Transport hazard class(es)

Transport hazard class(es) : Not regulated

14.4. Packing group

Packing group : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available

14.6. Special precautions for user

Not regulated

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
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

EU restriction list (REACH Annex XVII)

Reference code

Applicable on

3(b)

Foliastim 5-5-5+TE; Phosphoric acid

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) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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.

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not classified

15.1.2. National regulations

Ensure that all national/local regulations are observed

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Phosphoric acid, 75%, aqueous solution

SECTION 16: Other information

Indication of changes:

Refer table below.

Section	Changed item	Change	Comments
1.1	UFI	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard pictograms (CLP)	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	CLP Signal word	Added	
2.2	Hazard statements (CLP)	Added	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/injuries after eye contact	Modified	
4.2	Symptoms/injuries after skin contact	Modified	
4.2	Symptoms/effects after inhalation	Modified	
8.2	Personal protective equipment	Added	
8.2	Skin and body protection	Modified	
15.1	Regulatory information	Modified	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
REACH	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UFI	UFI : Unique Formula Identifier
VOC	Volatile Organic Compounds

Data sources : BIG-database.

ECHA Website: Information on Registered Substances.

Handbook of Chemistry and Physics CRC Press Inc.

Safety Data Sheet

According to Regulation (EC) No 2020/878



FoliaStim Ultimate Liquid

Information from suppliers.

Training advice : Before using/handling the product one must carefully read the MSDS.

Full text of H- and EUH-statements:

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 (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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Company disclaimer

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.