



Revision no. 5

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Replaces revision no. 4 (revision date 17/01/2016)

MATERIAL SAFETY DATA SHEET

Conforms to Annex II of REACH - Regulation (EU) 2020/878

Product: **STABILO PH+****SECTION 1. Identification of the substance or mixture and of the Company / Undertaking****1.1. Product identifier:**

denomination

STABILO PH+

UFI

M830-50SC-2000-TFPX**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Description / Use

pH increaser, for ornamental freshwater and marine aquariums.**Identifying Uses**

Industrial use

Industrial

-

Professional

✓

Consumption

✓

1.3. Information on the supplier of the safety data sheet

Business name

E'QUO S.R.L.

Street address

Via Emilio Boni, nr. 19

Zip code, city and state

59100 – Prato (PO) – ITALIA

Phone

+39 0574 819 170

e-mail of the competent person,
responsible for the safety data sheet

mauro.c@equoitaly.com

1.4. Emergency telephone number

For urgent information contact

Florence Poison Control Center: Tel. 0557947819 (CAV Careggi Hospital)**Pavia Poison Control Center: Tel. 038224444 (CAV IRCCS Maugeri-Pavia Foundation).****Tel. 063054343 (CAV Policlinico Gemelli-Rome).****0649978000 (CAV Policlinico Umberto I-Rome).****Rome Poison Control Center: Tel. 0668593726 (CAVp. Ospedale Pediatrico Bambino Gesù).****Naples Poison Control Center: Tel. 0817472870 (CAV Cardarelli Hospital-Naples).****Bergamo Poison Control Center: Tel. 800883300 (CAV Papa Giovanni XXII Hospital).****Foggia Poison Control Center: Tel: 0881-732326 (CAV Foggia University Hospital).****Milan Poison Control Center: Tel. 0266101029 (CAV Niguarda Ca' Granda-Milan Hospital).****Medical Service provided 24 hours a day**

Technical support:

EQUO SRL, phone: +39 0574 819 170 (available from 08: 00-12: 00/14: 00-18: 00 from Monday to Friday)

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Product: **STABILO PH+****SECTION 2. Hazards identification****2.1. Substance or mixture classification**

The product is classified as dangerous pursuant to the provisions of Regulation (CE) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.

Any additional information regarding risks to health and / or the environment are given in sections. 11 and 12 of this sheet.

Hazard classification and indications:

Causes skin irritation, category 2
Causes serious eye damage, category 2

H315
H319

Causes skin irritation.
Causes serious eye damage.

2.2. Label elements

Danger labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings: Attention

Hazard statements:

H319 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements:

P264
P280 Wear protective gloves and protect eyes / face.
P305+P351+P338 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P337+P313 If eye irritation persists: Get medical advice/attention.

Contains: Sodium hydroxide

2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$. The product contains substances with properties of interference with the endocrine system in a concentration of $\geq 0.1\%$.

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Product: **STABILO PH+****SECTION 3. Composition / information on ingredients****3.2. Mixture**

Contains:

Identification**x = Conc. %****Classification 1272/2008 (CLP)****Sodium hydroxide**

INDEX 011-002-00-6

 $0,1 \leq x < 1$ C \geq 5% Skin Corr. 1A, H314; 2 % \leq C < 5 % Skin Corr. 1B, H314; 0,5 % \leq C < 2 % Skin Irrit. 2, H315; 0,5 % \leq C < 2 % Eye Irrit. 2, H319;

EC 215-185-5

CAS 1310-73-2

Reg. REACH 01-2119531563-43-xxxx

The full wording of the hazard statements (H) is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

In all cases of doubt or if symptoms persist, seek medical attention.

EYES: Remove contact lenses, if present, if the situation permits the operation to be carried out easily. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide.

SKIN: Take off all contaminated clothing. Wash immediately and abundantly with running water (and soap if possible). Call a poison control center or doctor immediately. Avoid further contact with contaminated clothing.

INHALATION: Move the subject to fresh air, away from the scene of the accident. In case of breathing difficulties, consult a doctor immediately.

INGESTION: Never give anything by mouth if the victim is unconscious. Rinse your mouth. Call a poison control center or doctor.

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

Causes serious eye irritation. Symptoms can be: redness, swelling, pain and tearing. Inhalation of vapors may cause moderate irritation of the upper respiratory tract; contact with skin may cause moderate irritation..

4.3. Indication of any need to immediately consult a doctor and special treatments

Information not available

SECTION 5. Fire fighting measures**5.1. Fire fighting**

SUITABLE EXTINGUISHING MEANS

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and nebulized water.

UNSUITABLE EXTINGUISHING MEDIA

No one in particular.

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5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Carbon oxide

Not combustible.

Combustion can cause fumes of:

Carbon oxide.

Avoid breathing combustion products.

5.3. Recommendations for firefighters

GENERAL INFORMATION

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

EQUIPMENT

Normal clothing for firefighting, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

SECTION 6. Measures in case of accidental release

6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if there is no danger. Wearing of suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for those involved in the work and for emergency interventions. Advice for non-emergency personnel Avoid inhalation of dust. Avoid contact with the substance. Provide adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. See Section 8 for personal protective equipment.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater. Collect, cordon off and vacuum away spills. Observe any material restrictions (see sections 7 and 10). Dry. Dispose of according to regulations. Clean the affected area. Avoid dust formation.

6.3. Methods and materials for containment and cleaning up

Suck up the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

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SECTION 7. Handling and storage

7.1. Precautions for Safe Handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, checking section 10.

7.3. Specific end uses

See section 1.2

SECTION 8. Exposure / personal protection controls

8.1. Control parameters

Normative requirements:

Sodium hydroxide

Health - Derived level of no effect - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers					
	Acute local	Acute systemic	Chronic local	Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral									
Inhalation									1mg/m3
Dermal									

Legend:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = Breathable fraction; TORAC = Thoracic fraction.

VND = hazard identified but none DNEL/PNEC available; NEA = no exposure expected; NPI = no hazards identified.

8.2. Exposure controls

Considering that the use of adequate technical measures should always have priority over personal protective equipment, ensure good ventilation in the workplace through effective local exhaust.

For the choice of personal protective equipment, if necessary, seek advice from your chemical suppliers.

Individual protection devices must bear the CE marking which certifies their compliance with current regulations.

Provide an emergency shower with face and eye basin.

HAND PROTECTION

Protect hands with category III work gloves (ref. Standard EN 374).

For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.

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SKIN PROTECTION

Wear category II work clothes with long sleeves and safety footwear for professional use (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is recommended to wear airtight protective goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is advisable to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	Liquid	
Color	Slightly blue	
Smell	Characteristic	
Melting or freezing point	Unavailable	
Initial boiling point	Unavailable	
Flammability	Not inflammable	
Lower explosive limit	Unavailable	
Upper explosive limit	Unavailable	
Flash point	> 60 °C	
Self-ignition temperature	Unavailable	
pH	13,5	Temperature: 20 ° C
Kinematic viscosity	Unavailable	
Dynamic viscosity	Unavailable	
Solubility	Soluble in water	
Partition coefficient: n-octanol / water	Unavailable	
Vapor pressure	Unavailable	
Density and / or Relative density	1000	
Relative vapor density	Unavailable	
Characteristics of the particles	Unavailable	

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9.2. Other information

9.2.1. Information relating to the classes of physical hazards

Corrosive substances or mixtures for metals

Compatible / incompatible materials see sections 10.5

9.2.2. Other security features

Information not available

SECTION 10. stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

In normal conditions of use and storage no dangerous reactions are foreseeable.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemicals
Avoid overheating.

10.5. Incompatible materials

For Sodium Hydroxide: Strong acids, ammonia, Zinc, Lead Aluminum.

10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of fire, gases and vapors potentially harmful to health (carbon oxides) can be released.

SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product itself, any health hazards of the product have been assessed on the basis of the properties of the substances contained, according to the criteria established by the reference legislation for classification.

Therefore, consider the concentration of the individual dangerous substances possibly mentioned in sect. 3, to evaluate the toxicological effects resulting from exposure to the product.



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11.1. Information on the hazard classes defined in the Regulation (CE) n. 1272/2008 and subsequent amendments

FOR THE PRODUCT:

ACUTE TOXICITY

Oral: No data available

SKIN CORROSION / SKIN IRRITATION

The product is irritating to the skin.

SERIOUS EYE DAMAGE / EYE IRRITATION

The product is irritating to eyes.

RESPIRATORY OR SKIN SENSITIZATION

No data available

MUTAGENICITY ON GERMINAL CELLS

No data available

REPRODUCTION TOXICITY

No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

No data available

DANGER IN CASE OF SUCTION

No data available

FOR SODIUM HYDROXIDE:

ACUTE TOXICITY

Oral: No data available

Symptoms: If ingested, causes severe burns to the mouth and throat, as well as perforation of the esophagus and stomach.

Symptoms: burns of mucous membranes, Cough, Shortness of breath, Possible damage to respiratory tract.

Dermal: No data available.

SKIN CORROSION / SKIN IRRITATION

Skin - On rabbit

Result: Causes burns.

Comments: (Regulation (EC) No. 1272/2008, Annex VI)

SERIOUS EYE DAMAGE / EYE IRRITATION

yes - On rabbit

Result: Causes serious eye damage.

(OECD Test Guideline 405)

Comments: (Regulation (EC) No. 1272/2008, Annex VI)

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Product: **STABILO PH+**

Remarks: Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIZATION

Patch test: - In vitro study

Result: negative

Comments: (ECHA)

MUTAGENICITY ON GERMINAL CELLS

No data available

CARCINOGENITY

No data available

REPRODUCTION TOXICITY

No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

No data available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

No data available

DANGER IN CASE OF SUCTION

No data available

Other dangerous properties which cannot be excluded: burning sensation, cough, asthma, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonia, pulmonary edema, The product seriously damages the mucous membranes and upper respiratory tract as well as the eyes and skin., To the best of our knowledge, the chemical, physical and toxicological properties have not been extensively investigated.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

Toxicity to fish LC50

Gambusia affinis (Buzzacchiotto) - 125 mg/l - 96 h.
Remarks: (ECOTOX Database)Toxicity to daphnia and other aquatic invertebrates
EC50Ceriodaphnia (water flea) - 40.4 mg/l - 48 h. Comments:
(ECHA)

Toxicity to bacteria EC50

Photobacterium phosphoreum - 22 mg/l - 15 min. Remarks:

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(External MSDS)

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulation potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessmentBased on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.**12.6. Properties of interference with the endocrine system**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being assessed.

12.7. Other adverse effects

Harmful effect due to pH change. In spite of dilution, it still forms corrosive mixtures with water. Possible neutralization in wastewater treatment plants. Landfill into the environment must be avoided

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partially contains this product must be assessed on the basis of the laws in force.

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations.

The transport of waste may be subject to ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SEZIONE 14. Transport information.

The product is not to be considered dangerous under the provisions in force concerning the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. Number ONU or Number ID

Not applicable

14.2. ONU official designation for transport

Not applicable

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14.3. Transport hazard classes

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

Not applicable

14.7. Bulk shipping in accordance with IMO acts

Not relevant information

SECTION 15. Regulatory information

15.1. Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela

Seveso Category - Directive 2012/18 / EU: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Product

Point 3

Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and

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health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following contained substances:

Sodium hydroxide

SECTION 16. Other information

Text of hazard (H) indications mentioned in sections 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2;	Skin irritation, category 2
H314	It causes serious skin burns and serious eye injuries.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS: Number of the Chemical Abstract Service
- CE: Identification number in ESI (European archive of existing substances)
- CLP: Regulation (CE) 1272/2008
- DNEL: Derived no effect level
- EC50: Concentration affecting 50% of the population under test
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (CE) 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA: Weighted average exposure limit

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- TWA STEL: Short term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (CE) 1907/2006 of the European Parliament (REACH)
 2. Regulation (CE) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
 4. Regulation (CE) 790/2009 of the European Parliament (I Atp. CLP)
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated regulation (EU) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated regulation (EU) 2020/217 (XIV Atp. CLP)
 19. Delegated regulation (EU) 2020/1182 (XV Atp. CLP)
 20. Delegated regulation (EU) 2021/643 (XVI Atp. CLP)
 21. Delegated regulation (EU) 2021/849 (XVII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA Agency website
 - Database of SDS models of chemical substances - Ministry of Health and National Institute of Health

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document should not be construed as a guarantee of any specific property of the product. Since the use of the product does not fall under our direct control, the user is obliged to observe the laws and regulations in force on hygiene and safety under his own responsibility. No responsibility is assumed for improper use. Provide adequate training to personnel assigned to the use of chemical products.



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METHODS OF CALCULATING THE CLASSIFICATION

Physico-chemical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for assessing the physico-chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from the previous revision

Changes have been made to the following sections:

01 / 02 / 03 / 04 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 16.