

Revision nr. 2

Dated 25/01/2023

Printed on 25/01/2023

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Replaced revision:1 (Printed on: 28/10/2019)

### 4000/LC10/1 - FINE ETCH CRYSTALS (1 KG)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

4000/LC10/1 Code:

**FINE ETCH CRYSTALS (1 KG)** Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Copper remover. Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Technic UK (Lektrachem Ltd) Name

Full address Unit 9 Liberty Way, Attleborough Fields Ind Estate

District and Country CV11 6R Nuneaton, Warks

United Kingdom

Tel. +44 (0) 2476 374999 Fax +44 (0) 247 6374004

e-mail address of the competent person

responsible for the Safety Data Sheet sales@technicuk.co.uk

1.4. Emergency telephone number

+44 (0) 2476 374999 - 08:30 - 17: 00 Monday to Friday - or you can call the nearest For urgent inquiries refer to

hospital showing the SDS

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Oxidising solid, category 2	H272	May intensify fire; oxidiser.
Acute toxicity, category 4	H302	Harmful if swallowed.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

### 2.2. Label elements



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Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

#### Hazard pictograms:







Signal words: Danger

Hazard statements:

H272May intensify fire; oxidiser.H302Harmful if swallowed.H319Causes serious eye irritation.H315Causes skin irritation.

**H335** May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H317** May cause an allergic skin reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P220 Keep away from clothing and other combustible materials.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

Contains: SODIUM PERSULFATE

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

### **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

**SODIUM PERSULFATE** 

INDEX - 75 ≤ x < 100 Ox. Sol. 2 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

LD50 Oral: 920 mg/kg

CAS 7775-27-1

EC 231-892-1

REACH Reg. 01-2119495975-15



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

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

In case of fire, harmful fumes are generated.

### SODIUM PERSULFATE

In case of fire can be releases sulphur dioxide and toxic pyrolysis products.

### 5.3. Advice for firefighters

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



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### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

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

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store at temperatures between 10 ° and 30 \* C.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

### **SODIUM PERSULFATE**

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,0763	mg/l	
Normal value in marine water	0,011	mg/l	



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Normal value for fresh water sediment	0,275	mg/kg/d	_
Normal value for marine water sediment	0,0396	mg/kg/d	
Normal value of STP microorganisms	3,6	mg/l	
Normal value for the terrestrial compartment	0.015	ma/ka/d	

Health - Derived no-ef	fect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				9,1 mg/kg bw/d				
Inhalation			1,03 mg/m3	1,03 mg/m3			2,06 mg/m3	2,06 mg/m3
Skin			0,051 mg/kg bw/d	9,1 mg/kg bw/d			0,102 mg/kg bw/d	18,2 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### SODIUM PERSULFATE

Workers - Hazard via inhalation route:
Sistemic effects DNEL 2.06 mg/m3
Local effect DNEL 2.06 mg/m3
Workers - Hazard via dermal route:
Sistemic effects DNEL 18.2 mg/kg bw/day
Local effect DNEL 0.102 mg/cm2
General population - Hazard via inhalation route:
Sistemic effects DNEL 1.03 mg/m3
Local effect DNEL 1.03 mg/m3
General populations - Hazard via dermal route:
Sistemic effects DNEL 9.1 mg/kg bw/day
Local effect DNEL 0.051 mg/cm2
General populations - Hazard via oral route:
Sistemic effects DNEL 9.1 mg/kg bw/day

### 8.2. Exposure controls

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

If prolonged contact with the product is expected, it is advisable to protect your hands with work gloves resistant to penetration (ref. Standard EN 374). For the final choice of the material of the work gloves, the process of using the product and any additional products that derive from it must also be evaluated. It is also recalled that latex gloves can give rise to sensitization phenomena. Use chemical resistant gloves (e.g. nitrile).

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.



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#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance powder

Colour white
Odour odourless
Melting point / freezing point 180 °C

Initial boiling point not applicable

Flammability contact with combustible

materials may cause fire

Lower explosive limit not available
Upper explosive limit not available
Flash point not applicable
Auto-ignition temperature not available
Decomposition temperature not available

pH 5 - 8 @ 10 g/lt 20°C

Kinematic viscosity not available
Solubility soluble in water
Partition coefficient: n-octanol/water not available
Vapour pressure not available
Density and/or relative density not available
Relative vapour density not available
Particle characteristics not available

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics



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Explosive properties

Product does not present an explosion hazard

### **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 in normal conditions of use and storage.

#### SODIUM PERSULFATE

Avoid exposure to: combustible substances, reducing substances.

Decomposes before melting. Observable thermal decomposition at temperatures >60°C. SADT: abt. 180°C (UN Test-H4). Even minor decontamination or humidity may lead to perceptible lowering of the SADT.

#### 10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

### SODIUM PERSULFATE

The substance is a strong oxidant and reacts with combustible and reducing materials. The substance decomposes on heating producing toxic and corrosive fumes including sulphur oxides. React violently with powdered metals and strong bases. The solution in water is a weak acid. Not combustible but enhances combustion of other substances. Risk of explosion with reducing agents.

### 10.4. Conditions to avoid

Avoid environmental dust build-up.

#### 10.5. Incompatible materials

#### SODIUM PERSULFATE

Flammable materials, combustible materials, reducing agents, organic solvents, metals and acids, accelerators, strong acids and bases, heavy metal salts, reducing agents. Prevent contamination with dust, ashes, rust, etc.

### 10.6. Hazardous decomposition products

### SODIUM PERSULFATE

Sulphur oxides, toxic pyrolysis products.



SERIOUS EYE DAMAGE / IRRITATION

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# Replaced revision:1 (Printed on: 28/10/2019) **SECTION 11. Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Metabolism, toxicokinetics, mechanism of action and other information Information not available Information on likely routes of exposure Information not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: 920,92 mg/kg ATE (Dermal) of the mixture: Not classified (no significant component) SODIUM PERSULFATE LD50 (Dermal): > 10000 mg/kg Rabbit LD50 (Oral): 920 mg/kg Rat LC50 (Inhalation mists/powders): > 5 mg/l/4h Rat SKIN CORROSION / IRRITATION Causes skin irritation



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Causes serious eye irritation		
RESPIRATORY OR SKIN SENSITISA	TION	
Sensitising for the skin		
Sensitising for the respiratory system		
OFFIN OF LEMUTACENHOLTY		
GERM CELL MUTAGENICITY		
Does not meet the classification criteria	a for this hazard class	
CARCINOGENICITY		
Does not meet the classification criteria	a for this hazard class	
REPRODUCTIVE TOXICITY		
Does not meet the classification criteria	a for this hazard class	
STOT - SINGLE EXPOSURE		
May cause respiratory irritation		
STOT - REPEATED EXPOSURE		
Does not meet the classification criteria	a for this hazard class	
ASPIRATION HAZARD		
TO HATTINE HE		
Does not meet the classification criteria	a for this hazard class	
11.2. Information on other hazards		



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

### **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

SODIUM PERSULFATE

EC50 - for Crustacea

133 mg/l/48h Daphnia magna

#### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



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code: (E)

Packaging

559

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### **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1505

### 14.2. UN proper shipping name

ADR / RID: SODIUM PERSULPHATE IMDG: SODIUM PERSULPHATE SODIUM PERSULPHATE IATA:

### 14.3. Transport hazard class(es)

ADR / RID: Class: 5.1 Label: 5.1

IMDG: Class: 5.1 Label: 5.1

IATA: Class: 5.1 Label: 5.1



### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

IMDG:

IATA:

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 50 Limited Tunnel Quantities: 5 restriction

Special provision: -

EMS: F-A, S-Q Limited Quantities: 5

Cargo: Maximum quantity: 100

instructions: Kg

Passengers: Maximum Packaging instructions: quantity: 25

kg

kg

Special provision:

### 14.7. Maritime transport in bulk according to IMO instruments



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Information not relevant

### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: P8

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

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



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Ox. Sol. 2 Oxidising solid, category 2 Acute Tox. 4 Acute toxicity, category 4 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit, 2 Skin irritation, category 2

STOT SF 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1

Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1A Skin sensitization, category 1A H272 May intensify fire; oxidiser. H302 Harmful if swallowed.

H319 Causes serious eve irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008 **DNEL: Derived No Effect Level**
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament



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- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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 (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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
- FCHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 05 / 08 / 09 / 11 / 12 / 15 / 16.