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Safety Data Sheet

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

1.1. Product identifier

Code: 0030661
Product name PULIMUFFE
Chemical name and synonym PULIMUFFE

1.2. Relevant identified uses of the substance or mixture and uses advised against Sector of use: SU22 – Professional uses SU21 – Consumer uses

Uses advised against Do not use on aluminum, light metals and alloys. Do not use on fabrics and furnishings.

Do not use for purposes other than those indicated

Category of product: PC35 – Washing and cleaning products (including solvent-based products)

Intended use Cleaner for mold and algae removal

1.3. Details of the supplier of the safety data sheet

Name MARBEC S.R.L.

Full address VIA CROCE ROSSA 5/i
District and Country 51037 MONTALE (PISTOIA)

ITALY

Tel. +390573/959848 Fax +390573/959385

e-mail address of the competent person

responsible for the Safety Data Sheet info@marbec.it

1.4. Emergency telephone number

For urgent inquiries refer to MARBEC srl

+390573959848 h8.30-13 h14-18 or +393357267940
Telephone number of Poison Centers active 24/24 hours
CAV IRCSS Fondazione Maugeri – Pavia 0039-0382-24444

CAV Ospedali Riuniti - Bergamo 0039-800-883300

CAV Ospedale Niguarda Ca` Granda - Milano 0039-02-66101029

CAV Ospedale Careggi- Firenze 0039-055-7947819 CAV Policlinico Gemelli – Roma 0039-06-3054343 CAV Policlinico Umberto I – Roma 0039-06 49978000 CAV Ospedale Cardarelli – Napoli 0039-081 5453333

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 2015/830.

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:

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Skin corrosion, category 1B H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage. Hazardous to the aquatic environment, acute toxicity, H400 Very toxic to aquatic life.

category 1

Hazardous to the aquatic environment, chronic toxicity, H411 Toxic to aquatic life with long lasting effects.

category 2

2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Precautionary statements:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

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

rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P280 Wear protective cloyes/ protective clothing / eye protection / face protection.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P310 Immediately call a POISON CENTER / doctor / . . .

P273 Avoid release to the environment.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Contains: Sodium hypochlorite 14/15% V°

Ingredients in accordance with Regulation (EC) No 648/2004

Chlorine-based brighteners < 5 %, sodium hydroxide <1%, non-ionic surfactants <5%, perfume.

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

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3.2. Mixtures

Contains:

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

N,N-dimethyl tetradecylamine N-

oxide

CAS 3332-27-2

 $0.5 \le x < 1$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1

H400 M=1, Aquatic Chronic 2 H411

LD50 Orale: 1064 mg/kg

CE 222-059-3 INDEX -

Reg. REACH 01-2119949262-37

SODIUM HYPOCHLORITE 14/15%

V° (16% - active chlorine)

CAS 7681-52-9 $9 \le x < 25$

Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic

Chronic 1 H410 M=1, EUH031, Classification note according to Annex VI to

the CLP Regulation: B

EC 231-668-3

INDEX 017-011-00-1

Reg. no. 01-2119488154-34-****

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

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

The product is neither flammable nor combustible.

5.3. Advice for firefighters

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).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

Make sure the leakage site is well aired. 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.

Storage class TRGS 510 (Germany):

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7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

SODIUM HYPOCHLORIT	Έ							
Predicted no-effect concentrate	tion - PNEC							
Normal value in fresh water				0,00021	mg	/I		
Normal value in marine water				0,000042	mg	/I		
Normal value for water, intermittent release				0,00026	mg	/I		
Health - Derived no-effec	ct level - DNEL / D	MEL						
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,26 mg/kg bw/d		,		,
Inhalation	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3
N,N-dimethyl tetradecyla	amine N-oxide							
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water			0,0335	mg/l				
Normal value in marine water				0,00335	mg/l			
Normal value for fresh water sediment				5,24	mg/kg/d			
Normal value for marine water sediment				0,524	mg/kg/d			
Normal value for water, intermittent release				0,0335	mg/l			
Normal value of STP microorganisms				24	mg/l			
Normal value for the food chain (secondary poisoning)				0,0000111	mg/kg			
Normal value for the terrestrial compartment				1,02	mg/kg/d			
Health - Derived no-effe	ect level - DNEL / I	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	0,44 mg/kg				-		
Inhalation			VND	1,53 mg/m3			VND	6,2 mg/m3
Skin			VND	5,5 mg/kg			VND	11 mg/kg

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

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.

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Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

es. in PVC, Neoprene or butyl rubber.

For the final choice of the material of the work gloves, the following must be considered: compatibility, degradation, breaking 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. The gloves have a wear time that depends on the duration and mode of use.

In case of prolonged exposure, gloves must have the following characteristics:

Minimum breakthrough time:> 480 min.

Minimum thickness: 0.7 mm

In the event of a short-term exposure (splash protection) gloves must have the following characteristics:

Minimum breakthrough time: 30 min.

Minimum thickness: 0.4 mm.

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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

Not necessary, unless otherwise indicated in the chemical risk assessment. Under certain conditions (confined spaces, large quantities and high temperatures) use half-masks compliant with the UNI-EN140 standard equipped with gas filters and combined, compliant with the UNI-EN 141 standard and of the A1B1E1K1-FFP3 type.

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid

Colour straw-coloured Odour pungent Melting point / freezing point Not applicable Initial boiling point Not available Flammability incombustible Lower explosive limit Not applicable Upper explosive limit Not applicable > 90 °C Flash point Auto-ignition temperature Not available

рΗ

Kinematic viscosity Not available Solubility soluble in water Partition coefficient: n-octanol/water Not available Not available Vapour pressure Density and/or relative density 1,05 kg/l Not available Relative vapour density Particle characteristics Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 0,03 % - 0,31 g/litre

Explosive properties non-explosive
Oxidising properties non-oxidizing

SECTION 10. Stability and reactivity

10.1. Reactivity

Information not available

10.2. Chemical stability

Information not available

10.3. Possibility of hazardous reactions

Contact with strong acids causes the development of toxic gases.

10.4. Conditions to avoid

Information not available

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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Respiratory sensitization

Information not available

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Skin sensitization			
Information not available			
GERM CELL MUTAGENICITY			
Does not meet the classification criteria for this hazard class			
CARCINOGENICITY			
Does not meet the classification criteria for this hazard class			
REPRODUCTIVE TOXICITY			
Does not meet the classification criteria for this hazard class			
Adverse effects on sexual function and fertility			
Information not available			
Adverse effects on development of the offspring			
Information not available			
Effects on or via lactation			
Information not available			
STOT - SINGLE EXPOSURE			
Does not meet the classification criteria for this hazard class			
Target organs			

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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

This product is dangerous for the environment and highly toxic for aquatic organisms.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity

SODIUM HYPOCHLORITE 14/15% V°

LC50 - for Fish

0,059 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

0,141 mg/l/48h Daphnia magna

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EC50 - for Algae / Aquatic Plants 0,04 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 0,007 mg/l ostrica, sea water (7 days)

Chronic NOEC for Algae / Aquatic Plants 0,364 mg/l Algae fresh water

N,N-dimethyl tetradecylamine N-oxide

 LC50 - for Fish
 2,67 mg/l/96h

 EC50 - for Crustacea
 3,1 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 0,19 mg/l/72h

 Chronic NOEC for Fish
 0,067 mg/l

12.2. Persistence and degradability

SODIUM HYPOCHLORITE 14/15% V°

Sodium hypochlorite is a strong oxidant. It will react with organic substances present in the soil and sediments, degrading rapidly. Sodium hypochlorite is substantially removed in biological treatment processes.

SODIUM HYPOCHLORITE 14/15% V°

Solubility in water 1000 - 10000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

SODIUM HYPOCHLORITE 14/15% V°

Partition coefficient: n-octanol/water -3,42

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 greater than 0,1%.

12.6 Properties of interference with the endocrine system

According to the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disrupters with effects on the environment being evaluated.

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.

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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.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 3082

IATA:

ADR / RID: If transported in simple or internal packaging with a capacity of ≤ 5Kg or 5L, the product is not subject to

ADR / RID provisions, as required by Special Provision 375.

IMDG: If transported in simple or internal packaging with a capacity of ≤ 5Kg or 5L, the product is not subject to

the provisions of the IMDG Code, as required by Section 2.10.2.7.

IATA: If transported in simple or internal packaging with a capacity of ≤ 5Kg or 5L, the product is not subject to

other IATA provisions, as required by Special Provision A197.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYPOCLORITE, SODIUM HYDROXIDE)

MIXTURE

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYPOCLORITE, SODIUM HYDROXIDE),

MARINE POLLULANT MIXTURE

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYPOCLORITE, SODIUM HYDROXIDE)

MIXTURE

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group

ADR / RID, IMDG, III

IATA:

14.5. Environmental hazards

ADR / RID: Environmentally

Hazardous

IMDG: Marine Pollutant



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IMDG:

IATA:

According to Annex II to REACH - Regulation 2015/830

IATA: Environmentally

Hazardous



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90

Limited Quantities: 5

Tunnel restriction

L

code: (-)

Special Provision: -

Special Instructions:

EMS: F-A, S-F

Limited Quantities: 5

ı

Cargo:

Pass.:

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

Maximum quantity: 450

Packaging instructions:

L Maximum 964 Packaging instructions:

quantity: 450

964

A97, A158,

A197

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/EC: 41

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

Product

Point 3-40

Contained substance

Point 75

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

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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 been prepared for the following substances in the mixture: Sodium hypochlorite 14-15% v someone.

SECTION 16. Other information

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

Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. 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. **EUH031**

Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases

(chlorine).

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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

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- IMO: International Maritime Organization
- INDEX NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 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 (EU) 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)
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- Handling Chemical Safety
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- 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 09 / 11 / 12 / 15 / 16.