

# MICRONIZED CALCIUM OXIDE

Revision n. 4 Dated 28/12/2022 Printed on 28/12/2022

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Replaced revision:3 (Dated 07/09/2020)

**EN** 

### **Safety Data Sheet**

According to Annex II to REACH - Regulation 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

Code: MICRON

Product name MICRONIZED CALCIUM OXIDE

Chemical name and synonym Calcium oxide - CaO

EC number 215-138-9 CAS number 1305-78-8

Registration Number **01-2119475325-36-0176** 

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

Intended use Calcium oxide in fine powder

Identified Uses	Industrial	Professional	Consumer
CALCIUM OXIDE	✓	✓	-

The identified uses are shown in the attached exposure scenario.

The product is intended for the following, non-exhaustive list of uses:

Iron and steel industry, chemical industry, agriculture, environmental protection (treatment of: exhaust gases, fumes, waste water, sludge), building materials, civil engineering, paper industry, paint industry.

#### 1.3. Details of the supplier of the safety data sheet

Name ITALCALCE SRL
Full address Via Salisano, 1
District and Country 04019 Terracina (LT)

Italy

tel. +39 0773 703024 fax +39 0773 700468

e-mail address of the competent person

responsible for the Safety Data Sheet info@italcalce.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to HEALTH EMERGENCY - 112

#### **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:

Serious eye damage, category 1

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3

H318

Causes serious eye damage.

Causes skin irritation.

May cause respiratory irritation.

#### 2.2. Label elements

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

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Precautionary statements:

**P280** Wear protective gloves/face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P261 Avoid breathing dust.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Continue rinsing.

Contains: CALCIUM OXIDE

Nr. EC: 215-138-9

#### 2.3. Other hazards

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative. (vPvB).

The substance does not have endocrine disrupting properties.

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

#### 3.1. Substances

Contains:

Identification Conc. % Classification 1272/2008 (CLP)

**CALCIUM OXYDE** 

CAS 1305-78-8 100 **Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335** 

CE 215-138-9

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

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

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

Calcium oxide does not cause acute toxicity if ingested, inhaled or comes into contact with the skin. It is classified as a skin and respiratory irritant and can cause serious eye damage. There is no fear of systemic adverse effects because the main health hazard is local effects (effect on pH).

#### 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

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

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

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion 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 selfcontained 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

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.

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

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

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

#### 8.1. Control parameters

Regulatory References:

FRA GBR HRV	France United Kingdom Hrvatska	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS EH40/2005 Workplace exposure limits (Fourth edition 2020) Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
EU	OEL EU TLV-ACGIH	Direttiva (UE) 2022/431; Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.  ACGIH 2021

CALCIUM OXYDE									
Threshold limit va	alue								
Type	Country	TWA/8h		STEL/15r	nin				
		mg/m3	ppm	mg/m3	ppm				
VLEP	FRA	5							
WEL	GBR	5							
GVI/KGVI	HRV	5							
OEL	EU	5							
TLV-ACGIH		5							
Predicted no-effe	ct concentr	ation - PNE	3						
Normal value in	n fresh wate	r					0,37	mg/l	
Normal value in	n marine wa	ter					0,24	mg/l	
Normal value for	or water, into	ermittent rele	ase				0,37	mg/l	
Normal value of	of STP micro	organisms					2,27	mg/l	
Normal value for	or the terres	trial comparti	ment				817,4	mg/kg	
Health - Derived	no effect le	evel - DNEL	/ DMEL						
	Effe	ects on consi	umers			Effects on w	orkers		
Route of exposi	ure Acı	ute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc	al	systemic	local	systemic	local	systemic	local	systemic
Inhalation	4 m	ng/m3	-	1 mg/m3	-	4 mg/m3	-	1 mg/m3	-

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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.

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.



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

#### 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.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

#### 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

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.

Information

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

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

Properties	Value
Appearance	powder
Colour	white
Odour	odourless
Melting point / freezing point	> 450 °C
Initial boiling point	Not applicable
Flammability	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Flash point	Not applicable
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	12
Kinematic viscosity	Not available

Solubility partially soluble in water Method: A.6 UE

Remark: experimental result Concentration:1337,6 mg/l

Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics
Not available
Not available
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

Granulometry < 0.1 mm

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#### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

Calcium oxide reacts exothermically with water, forming calcium dihydroxyde.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

Calcium oxide reacts exothermically with acids, forming calcium salts.

#### 10.4. Conditions to avoid

Avoid environmental dust build-up.

The substance degrades when exposed to air and moisture.

#### 10.5. Incompatible materials

Calcium oxide reacts exothermically in contact with water, forming calcium dihydroxyde:

CaO + H2O = Ca(OH)2 + 1155 kJ / kg CaO

Calcium oxide reacts exothermically in contact with acids, forming calcium salts.

In the presence of moisture, calcium oxide reacts in contact with aluminium and brass, thus forming hydrogen:

CaO + 2 AI + 7 H2O = Ca(AI(OH)4)2 + 3 H2

#### 10.6. Hazardous decomposition products

None. Calcium oxide absorbs moisture and carbon dioxide from the air, forming calcium carbonate, one widespread substance in nature: CaO + CO2 = CaCO3 + H2O

#### **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**

CALCIUM OXYDE LD50 (Oral) LD50 (Dermal)

> 2000 mg/kg RATTO > 2500 mg/kg CONIGLIO

#### SKIN CORROSION / IRRITATION

Causes skin irritation

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#### **SECTION 11. Toxicological information**

#### **SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

#### **RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

#### **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

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the substance is not 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

**CALCIUM OXIDE** 

LC50 - for Fish 50.6 ma/l/96h EC50 - for Crustacea 49,1 mg/l/48h EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h EC10 for Algae / Aquatic Plants 48 mg/l/72h Chronic NOEC for Crustacea 32 mg/l/14d

#### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available



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

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

#### 12.6. Endocrine disrupting properties

Based on the available data, the substance is not 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.

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

#### 14.1. UN number or ID number

ADR / RID: ADR EXEMPT

IMDG: IMDG CODE EXEMPT

IATA: 1910

#### 14.2. UN proper shipping name

ADR / RID: ADR EXEMPT
IMDG: IMDG CODE EXEMPT
IATA: CALCIUM OXIDE

#### 14.3. Transport hazard class(es)

ADR / RID: ADR EXEMPT

IMDG: IMDG CODE EXEMPT

IATA: Class: 8 Label: 8



#### 14.4. Packing group

ADR / RID: ADR EXEMPT

IMDG: IMDG CODE EXEMPT

IATA: II

#### 14.5. Environmental hazards

ADR / RID: ADR EXEMPT

IMDG: IMDG CODE EXEMPT

IATA: NO



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

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: -Limited Quantities: -Tunnel restriction code: -

Special Provision: -

IMDG: EMS: -Limited Quantities: -

IATA: Cargo: Maximum quantity: 100 Kg Packaging instructions: 864 Packaging instructions: 860

Pass.: Maximum quantity: 25 Kg

Special Instructions: A803

Avoid the emission of dust during transport, using sealed tank cars.

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

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: None

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 (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

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

Has not been performed / is not yet available a chemical safety assessment for the substance.

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

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

Eye Dam. 1 Serious eye damage, category 1 Skin Irrit. 2 Skin irritation, category 2

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

H318 Causes serious eve damage. H315 Causes skin irritation.

H335 May cause respiratory irritation.

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

#### 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 6. Regulation (EU) 487/2012 (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)
- 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
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy



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

#### 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:

02/08/09/11/12/15/16.