

# Safety Data Sheet

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

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

### 1.1. Product identifier

Code: **TC60300**  
 Product name: **MILK OF LIME Calcium oxide solution 12%**  
 UFI: **F10D-Y516-T000-DTEY**

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

Intended use: **Laboratory reagent**

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

Name: **TITOLCHIMICA SPA**  
 Full address: **VIA DELL'ARTIGIANATO, 2**  
 District and Country: **45030 VILLAMARZANA (RO)**  
**ITALIA**  
 Tel. **+39425492644**

e-mail address of the competent person

responsible for the Safety Data Sheet: **utecnico@titolchimica.it**  
 Supplier: **TITOLCHIMICA SPA**

### 1.4. Emergency telephone number

For urgent inquiries refer to  
**Poison control centres (24/24h):**  
**Pavia - 038224444;**  
**Milan - 0266101029;**  
**Bergamo - 800883300;**  
**Verona - 800011858;**  
**Florence - 0557947819;**  
**Rome - Gemelli 063054343;**  
**Rome - Umberto I 0649978000;**  
**Rome - Bambino Gesù 0668593726;**  
**Naples - 0815453333;**  
**Foggia - 800183459**

## 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 | H318 | Causes serious eye damage. |
| Skin irritation, category 2    | H315 | Causes skin irritation.    |

### 2.2. Label elements

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

Hazard pictograms:



Signal word: **Danger**

**TC60300 - MILK OF LIME**  
**Calcium oxide solution 12%**
**Hazard statements:**

**H318** Causes serious eye damage.  
**H315** Causes skin irritation.

**Precautionary statements:**

**P264** Wash hands thoroughly after use.  
**P280** Wear protective gloves / eye protection / face protection.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER / doctor.

**Contains:** Calcium Hydroxide

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  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                   | Conc. % | Classification (EC) 1272/2008 (CLP)                 |
|----------------------------------|---------|---|
| <b>Calcium Hydroxide</b>         |         |   |
| INDEX -                          | 13 - 17 | Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 |
| EC 215-137-3                     |         |   |
| CAS 1305-62-0                    |         |   |
| REACH Reg. 01-2119475151-45-xxxx |         |   |

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**

In case of accident or if you feel unwell, consult a doctor (show the label if possible). In case of breathing difficulties, administer oxygen. Ensure that medical personnel are aware of the materials involved and take the necessary precautions to protect themselves.

**EYES:** Immediately wash thoroughly with water for at least 15 minutes and call a doctor immediately.

**SKIN:** Immediately remove clothing and wash skin with soap and water. Consult a doctor if irritation occurs.

**INGESTION:** Rinse mouth with plenty of water. If vomiting occurs, keep head down to prevent it from entering the lungs. Consult a doctor.

**INHALATION:** Take the person to fresh air and keep them at rest. If breathing stops or is difficult, give artificial respiration, taking the necessary precautions for the rescuer. Consult a doctor.

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

The product causes serious eye damage and skin irritation.  
 For symptoms and effects due to the substances contained, see section 11.

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

Information not available.

**SECTION 5. Firefighting measures**

The product is not flammable and does not feed the flames.

**TC60300 - MILK OF LIME**  
**Calcium oxide solution 12%****5.1. Extinguishing media**

## SUITABLE EXTINGUISHING EQUIPMENT

I mezzi di estinzione sono: Polvere o CO2

## UNSUITABLE EXTINGUISHING EQUIPMENT

Water causes an increase in temperature..

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

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products: calcium oxide, which generates heat when in contact with water.

**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).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

For those not directly involved

Alert personnel responsible for managing such emergencies. Leave the accident area if you do not have the personal protective equipment listed in Section 8.

For those directly involved

Remove all personnel who are not adequately equipped to deal with the emergency. Wear appropriate protective equipment (including the personal protective equipment listed in Section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. Stop the leak if there is no danger.

Only allow workers to access the area affected by the accident after it has been cleaned up.

**6.2. Environmental precautions**

Prevent product from entering drains/surface waters, groundwater and in confined areas. If the product has escaped into waterways to alert authorities.

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

In case of liquid product suck into suitable vessel (in material incompatible with the product) and absorb the spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.). Collect most of the resulting material with non-sparking equipment and deposit it in containers for disposal. In case of solid material pick up mechanically non sparking leaked product and put it into plastic containers. Remove the residue with water if there are no contraindications. Ensure adequate ventilation of the place affected by the loss. Disposal of contaminated material must be made in accordance with point 13.

**6.4. Reference to other sections**

Any information regarding personal protection and disposal are reported in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact with eyes and skin. Avoid dust formation.

Handle in accordance with good industrial hygiene and safety.

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

Keep the product in clearly labelled containers. Store containers away from any incompatible materials, checking section 10.

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

Information not available

**TC60300 - MILK OF LIME**  
**Calcium oxide solution 12%**
**SECTION 8. Exposure controls/personal protection**
**8.1. Control parameters**

## Regulatory references:

|     |                |  |
|-----|----------------|--|
| DEU | Deutschland    | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58  |
| ESP | España         | Límites de exposición profesional para agentes químicos en España 2023   |
| FRA | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021  |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81  |
| ROU | România        | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006  |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)  |
| EU  | OEL EU         | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |

**Calcium Hydroxide**
**Threshold Limit Value**

| Type | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|------|---------|--------|-----|------------|-----|------------------------|
|      |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW  | DEU     | 1      |     | 2          |     | INHAL                  |
| MAK  | DEU     | 1      |     | 2          |     | INHAL                  |
| VLA  | ESP     | 1      |     | 4          |     | INHAL                  |
| VLEP | FRA     | 1      |     | 4          |     | RESP                   |
| VLEP | ITA     | 1      |     | 4          |     | RESP                   |
| TLV  | ROU     | 1      |     | 4          |     | RESP                   |
| WEL  | GBR     | 5      |     | 4          |     | RESP                   |
| OEL  | EU      | 1      |     | 4          |     | RESP                   |

**Predicted no-effect concentration - PNEC**

|  |      |         |
|--|------|---------|
| Normal value in fresh water                  | 0,49 | mg/l    |
| Normal value in marine water                 | 0,32 | mg/l    |
| Normal value of STP microorganisms           | 3    | mg/l    |
| Normal value for the terrestrial compartment | 1080 | mg/kg/d |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of exposure | Effects on consumers |                |               | Effects on workers |             |                |               |                  |
|-------------------|----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic   | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Skin              |                      |                |               |                    | 4 mg/cm2    |                | 1 mg/cm2      |                  |

## Legend:

(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.

## Calcium Hydroxide

## Sampling methods:

<https://amcaw.ifa.dguv.de/amcaw/substances/methods/97397d81-3f68-4f1c-a918-68920075f086>
**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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**Calcium oxide solution 12%**

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**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 ISO 16321).

**RESPIRATORY PROTECTION**

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**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                             | Suspension                   |                            |
| Colour                                 | white                        |                            |
| Odour                                  | odourless                    |                            |
| Melting point / freezing point         | not available                |                            |
| Initial boiling point                  | not available                |                            |
| Flammability                           | not available                |                            |
| Lower explosive limit                  | not applicable               |                            |
| Upper explosive limit                  | not applicable               |                            |
| Flash point                            | not available                |                            |
| Auto-ignition temperature              | not applicable               |                            |
| Decomposition temperature              | not available                |                            |
| pH                                     | 12,0 - 12,5                  |                            |
| Kinematic viscosity                    | not available                |                            |
| Solubility                             | very low solubility in water | Substance:alcium Hydroxide |
| Partition coefficient: n-octanol/water | not available                |                            |
| Vapour pressure                        | not available                |                            |
| Density and/or relative density        | 1,09                         |                            |
| Relative vapour density                | not available                |                            |
| Particle characteristics               | not applicable               |                            |

### 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

Not applicable (absence of chemical groups associated with explosive properties in accordance with the provisions of Annex I, Part 2, Chapter 2.1.4.3 of Reg. (EC) 1272/2008 - CLP).

Oxidising properties

Not applicable (absence of the requirements related to the presence of atoms and / or chemical bonds associated with oxidizing properties in the molecules of the components in accordance with the provisions of Annex I, Part 2, 2.13.4 of Regulation (EC) 1272/2008 - CLP).

## SECTION 10. Stability and reactivity

In the absence of information on the mixture, the literature information on the components is reported. This information is not characteristic of the solution but of the dangerous components.

### 10.1. Reactivity

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

Calcium Hydroxide

Reacts with: water. May develop: heat.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Calcium Hydroxide

Develops heat on contact with: water.

Reacts exothermically with acids to form salts.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

Calcium Hydroxide

Decomposes if exposed to: moisture.

### 10.5. Incompatible materials

Calcium Hydroxide

Reacts with aluminum and metal alloys in the presence of moisture producing hydrogen.

### 10.6. Hazardous decomposition products

Calcium Hydroxide

In decomposition develops: calcium oxide.

Reacts with carbon dioxide to form calcium carbonate, inert.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 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

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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:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

Calcium Hydroxide

LD50 (Dermal):

> 2500 mg/kg (OECD 402)

LD50 (Oral):

> 2000 mg/kg ratto (OECD 425)

**SKIN CORROSION / IRRITATION**

Causes skin irritation

Calcium Hydroxide

It causes skin irritation.

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

Calcium Hydroxide

It causes serious eye injuries.

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide

Based on available data, classification criteria are not satisfied.

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide

Based on available data, classification criteria are not satisfied.

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide

Based on available data, classification criteria are not satisfied.

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide

Based on available data, classification criteria are not satisfied.

**STOT - SINGLE EXPOSURE**

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Does not meet the classification criteria for this hazard class

Calcium Hydroxide  
Based on available data, classification criteria are not satisfied.

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide  
Based on available data, classification criteria are not satisfied.

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

Calcium Hydroxide  
Based on available data, classification criteria are not satisfied.

**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 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 Hydroxide  
LC50 (96h) 457 mg/l (Saltwater fish)

LC50 - for Fish 50,6 mg/l/96h (pesci d'acqua dolce)

LC50 (96h) 158 mg/l (Saltwater invertebrates)

EC50 - for Crustacea 49,1 mg/l/48h (invertebrati in acqua dolce)

EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h (alghe d'acqua dolce)

Chronic NOEC for Algae / Aquatic Plants 48 mg/l/72h (alghe d'acqua salata)

**12.2. Persistence and degradability**

Calcium Hydroxide  
Not relevant for inorganic substances.

**12.3. Bioaccumulative potential**

Calcium Hydroxide  
Not relevant for inorganic substances.

**12.4. Mobility in soil**

Calcium Hydroxide  
Calcium Hydroxide is moderately soluble and has low mobility in most soils.

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

Calcium Hydroxide  
Not relevant for inorganic substance  
On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

#### CONTAMINATED PACKAGING

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

### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

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

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

#### 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/EU: None

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

Product Point 3

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  $\geq$  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:

|                      |  |
|----------------------|--|
| <b>Eye Dam. 1</b>    | Serious eye damage, category 1                               |
| <b>Skin Irrit. 2</b> | Skin irritation, category 2                                  |
| <b>STOT SE 3</b>     | Specific target organ toxicity - single exposure, category 3 |
| <b>H318</b>          | Causes serious eye damage.                                   |
| <b>H315</b>          | Causes skin irritation.                                      |
| <b>H335</b>          | May cause respiratory irritation.                            |

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

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- 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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) 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)
  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)
  23. Delegated Regulation (UE) 2023/707
  24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
  25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
  26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
  27. Delegated Regulation (UE) 2024/2564 (XXII 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

**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.

Safety data sheet no. 6 dated 26/07/23. Complete revision of version no. 5 dated 18/05/21.