

## 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

|              |                 |
|--------------|-----------------|
| Product name | Tile 350 Bianco |
|--------------|-----------------|

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

##### Intended use

Pre-mixed cement. Single-component cementitious powder adhesive for bonding, including overlaying, porcelain and glazed stoneware and all types of ceramic tiles.

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

|                                                                              |                    |
|------------------------------------------------------------------------------|--------------------|
| Company name                                                                 | TORGGLER S.R.L.    |
| Full address                                                                 | Via Prati Nuovi 9  |
| Town                                                                         | Marlengo           |
| Postal code                                                                  | 39020              |
| Province                                                                     | BZ                 |
| Country                                                                      | Italy              |
| Phone number                                                                 | +39 0473 282400    |
| Fax                                                                          | +39 0473 282501    |
| e-mail address of the competent person responsible for the Safety Data Sheet | reach@torggler.com |

#### 1.4 Emergency telephone number

|                               |                                   |
|-------------------------------|-----------------------------------|
| For urgent inquiries refer to | +39 348 662 70 93 (08.00 - 17.30) |
|-------------------------------|-----------------------------------|

### 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

|                                                              |      |                                      |
|--------------------------------------------------------------|------|--------------------------------------|
| Skin irritation, category 2                                  | H315 | Causes skin irritation.              |
| Skin sensitization, category 1                               | H317 | May cause an allergic skin reaction. |
| Serious eye damage, category 1                               | H318 | Causes serious eye damage.           |
| Specific target organ toxicity - single exposure, category 3 | H335 | May cause respiratory irritation.    |

#### 2.2 Label elements

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

##### Hazard pictograms



##### Signal word

Danger

## Section 2

**Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H335 | May cause respiratory irritation.    |

**Precautionary statements**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves / eye protection / face protection.                                                                       |
| P501           | Dispose of contents and container in accordance with local and national regulations.                                             |
| P102           | Keep out of reach of children.                                                                                                   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P101           | If medical advice is needed, have product container or label at hand.                                                            |
| P310           | Immediately call a poison center/doctor.                                                                                         |

**Contains**

Portland cement clinker, Cr(VI) &lt; 2 ppm

**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**

Pre-mixed cement based on cement, siliceous and calcareous aggregates and organic and inorganic additives (production site 0102).

**3.2 Mixtures**
**Portland cement clinker, Cr(VI) < 2 ppm**

|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration         | $31 \leq x < 38 \%$                                                                                                                                  |
| CAS number            | 65997-15-1                                                                                                                                           |
| EC number             | 266-043-4                                                                                                                                            |
| Hazard classification | <ul style="list-style-type: none"> <li>Skin Irrit. 2; H315</li> <li>Skin Sens. 1; H317</li> <li>Eye Dam. 1; H318</li> <li>STOT SE 3; H335</li> </ul> |

**QUARTZ**

|                                                      |                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------|
| Concentration                                        | $0.00194 \leq x < 0.0084 \%$                                      |
| CAS number                                           | 14808-60-7                                                        |
| EC number                                            | 238-878-4                                                         |
| Hazard classification                                | <ul style="list-style-type: none"> <li>STOT RE 1; H372</li> </ul> |
| Substance with a community workplace exposure limit. |                                                                   |

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 doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

## Section 4

**INGESTION:** Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

**INHALATION:** Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

**Rescuers protection**

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

**DELAYED EFFECTS:** Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a poison center/doctor.

**Means to have available in the workplace for specific and immediate treatment**

Running water for skin and eye wash.

**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.

**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**

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.

## Section 6

## 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

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.

### Storage class TRGS 510 (Germany)

None

### Applicable technical instruction according to Royal Decree 656/2017:

| Classification                                                                                                                                                   | Storage in fixed containers | Storage in mobile containers              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ H317 – Skin Sens. 1</li> <li>▪ H335 – STOT SE 3</li> <li>▪ H315 – Skin Irrit. 2</li> <li>▪ H318 – Eye Dam. 1</li> </ul> | Not applicable              | MIE APQ-10 – Storage in mobile containers |

Respect the joint storage conditions established in Royal Decree 656/2017.

## 7.3 Specific end use(s)

Special uses:  
Building and construction.

# Section 8 Exposure controls/personal protection

## 8.1 Control parameters

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for particulate not otherwise classified (PNOC respirable fraction: 3 mg/m<sup>3</sup>; PNOC inhalable fraction: 10 mg/m<sup>3</sup>). 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. The above values are not TLVs, but guide values, to be used for particles that do not have their own TLV and that are insoluble or poorly soluble in water and have low toxicity.

### Regulatory references

|                    |                                                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACGIH              | ACGIH 2026                                                                                                                                                                                                                                                                                 |
| European Union-OEL | 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. |

## Section 8

## Regulatory references

|              |                                                                                                                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ireland-OELV | 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)                                                     |
| Malta-TLV    | PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22) |

## QUARTZ

|                    | TWA               |     | STEL              |     | CEILING           |     | Remarks     |           |
|--------------------|-------------------|-----|-------------------|-----|-------------------|-----|-------------|-----------|
|                    | mg/m <sup>3</sup> | ppm | mg/m <sup>3</sup> | ppm | mg/m <sup>3</sup> | ppm |             |           |
| ACGIH              | 0.025             |     |                   |     |                   |     | Respiratory |           |
| European Union-OEL | 0.1               |     |                   |     |                   |     | Respiratory |           |
| Ireland-OELV       | 0.1               |     |                   |     |                   |     | Respiratory |           |
| Ireland-OELV       | 0.1               |     |                   |     |                   |     | --          |           |
| Malta-TLV          | 0.1               |     |                   |     |                   |     | Respiratory | As Silica |

## Portland cement clinker, Cr(VI) &lt; 2 ppm

| Health - Derived no-effect level - DNEL / DMEL | Local effect  | Systemic effect     |
|------------------------------------------------|---------------|---------------------|
| Consumers, long-term, inhalation               | Not available | 1 mg/m <sup>3</sup> |

## 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.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

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.

Protect your hands with gloves of the following type:

## Protect your hands with gloves of the following type

| Material             | Thickness        | Breakthrough time |
|----------------------|------------------|-------------------|
| Nitrile rubber (NBR) | 0.4 ≤ x ≤ 0.6 mm | 480 min           |
| —                    | —                | —                 |

## SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344/EN ISO 13034).

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.

## Section 9 Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

|                |        |
|----------------|--------|
| Physical state | powder |
| Colour         | white  |

## Section 9

|                                        |                               |  |
|----------------------------------------|-------------------------------|--|
| Odour                                  | odourless                     |  |
| Odour threshold                        | Not applicable                |  |
| Melting point / freezing point         | Not available                 |  |
| Initial boiling point                  | Not applicable                |  |
| Flammability                           | not flammable                 |  |
| Lower explosive limit                  | Not available                 |  |
| Upper explosive limit                  | Not available                 |  |
| Flash point                            | Not applicable                |  |
| Auto-ignition temperature              | Not available                 |  |
| Decomposition temperature              | Not available                 |  |
| pH                                     | The mixture reacts with water |  |
| Kinematic viscosity                    | Not available                 |  |
| Solubility                             | slightly watersoluble         |  |
| Partition coefficient: n-octanol/water | Not available                 |  |
| Vapour pressure                        | Not applicable                |  |
| Density and/or relative density        | $1 \leq x \leq 1.5$ g/ml      |  |
| Relative vapour density                | Not available                 |  |

**Particle characteristics**

Information not available.

**9.2 Other information**
**9.2.1 Information with regard to physical hazards**

Information not available.

**9.2.2 Other safety characteristics**

|                         |          |  |
|-------------------------|----------|--|
| pH (aqueous dispersion) | (10%) 12 |  |
|-------------------------|----------|--|

**Section 10 Stability and reactivity**
**10.1 Reactivity**

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

**Portland cement clinker, Cr(VI) < 2 ppm**

Reacts with: water

It reacts alkalinely with water. On contact with water, a calculated reaction takes place, in which the product hardens to form a solid mass, which does not react with its surroundings.

**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.

**10.4 Conditions to avoid**

Avoid environmental dust build-up.

**Portland cement clinker, Cr(VI) < 2 ppm**

Avoid exposure to: moisture

## Section 10

## 10.5 Incompatible materials

### Portland cement clinker, Cr(VI) < 2 ppm

Incompatible with: acids, ammonium salts

Avoid contact with: aluminium powder

## 10.6 Hazardous decomposition products

Information not available.

# 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

### 11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

### 11.1.2 Information on likely routes of exposure

Information not available.

### 11.1.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

### 11.1.4 Interactive effects

Information not available.

### 11.1.5 ACUTE TOXICITY

Information not available.

### 11.1.6 SKIN CORROSION/IRRITATION

Causes skin irritation.

### 11.1.7 SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

### 11.1.8 RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

### 11.1.9 GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### 11.1.10 CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### 11.1.11 REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## Section 11

**11.1.12 STOT - SINGLE EXPOSURE**

May cause respiratory irritation.

**11.1.13 STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**11.1.14 ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**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**

Information not available.

**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  $\geq$  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**

EWC: 170101.

**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

## Section 13

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.

**Hazardous waste classification - Reg. (UE) 1357/2014**

HP 4 – Irritant — skin irritation and eye damage

HP 5 – Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 13 – Sensitising

**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**

Not applicable

**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

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

|                      | Restrictions | Registration Number EU |
|----------------------|--------------|------------------------|
| Product restrictions | --           |                        |
| Contained substance  |              |                        |
|                      | 75           |                        |

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

Not applicable

## Section 15

**Substances in Candidate List (Art. 59 REACH)****Registration Number EU**

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)****Authorisation  
Number****Sunset date****Registration Number EU**

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

**Regulation (EU) 2019/1021 - on persistent organic pollutants**

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.

**German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)**

WGK3 – Severe hazard to waters

**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:**

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Eye Dam. 1    | Serious eye damage, category 1                                  |
| Skin Irrit. 2 | Skin irritation, category 2                                     |
| Skin Sens. 1  | Skin sensitization, category 1                                  |
| STOT RE 1     | Specific target organ toxicity - repeated exposure, category 1  |
| STOT SE 3     | Specific target organ toxicity - single exposure, category 3    |
| H315          | Causes skin irritation.                                         |
| H317          | May cause an allergic skin reaction.                            |
| H318          | Causes serious eye damage.                                      |
| H335          | May cause respiratory irritation.                               |
| H372          | Causes damage to organs through prolonged or repeated exposure. |

**Legend**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EC: Identifier in ESIS (European archive of existing substances)
- 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%

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**Legend**

- 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 (EU) 2020/217 (XIV ATP CLP)
  19. Delegated Regulation (EU) 2020/1182 (XV ATP CLP)
  20. Delegated Regulation (EU) 2021/643 (XVI ATP CLP)
  21. Delegated Regulation (EU) 2021/849 (XVII ATP CLP)
  22. Delegated Regulation (EU) 2022/692 (XVIII ATP CLP)
  23. Delegated Regulation (EU) 2023/707
  24. Delegated Regulation (EU) 2023/1434 (XIX ATP CLP)
  25. Delegated Regulation (EU) 2023/1435 (XX ATP CLP)
  26. Delegated Regulation (EU) 2024/197 (XXI ATP CLP)
  27. Delegated Regulation (EU) 2024/2564 (XXII ATP CLP)
  28. Regulation (EU) 2024/2865
  29. Delegated Regulation (EU) 2025/1222 (XXIII 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

## Section 16

**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 from the previous revision**

This SDS has been prepared with a different software from the one previous revision. The new calculation does not allow us to identify all the differences compared to the previous version. We therefore recommend carefully reviewing all 16 sections of the SDS. We remain available to provide any clarification regarding the content or the changes made compared to the previous version, which is available to professional or industrial users.