

## SAFETY DATA SHEET

# ROCCIA VIVA

## 1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

### 1.1 Product identifier

Product name ROCCIA VIVA  
 UFI: F500-Y03D-N00D-Y8TR

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

Description/Application Self levelling powder

### 1.3 Details of the Australian importer

Name: Calce Company Pty Ltd  
 Full address: 24/13-15 Baker Street, Banksmeadow NSW 2019, Australia  
 Phone: +61 2 9666 4492  
 E-mail address: info@calcecompany.com

### Details of the manufacturer and supplier of the safety data sheet

Name: Bericalce Srl  
 Full address: Via Piave 23, 36033 Isola Vicentina (VI), Italy  
 Phone: +39 0444 929102  
 E-mail address of the competent person: info@bericalce.com

### 1.4 Emergency telephone number

For urgent inquiries refer to: Emergency Services (Australia) 000  
 Poisons Information Centre (Australia) 13 11 26 (24 h / 7 days)

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (as amended and adapted). This safety data sheet is prepared in accordance with Regulation (EC No. 1907/2006, as amended by Regulation (EU) 2020/878.

Any additional information regarding health and/or environmental hazards can be found in Sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                                                   |      |                                      |
|-------------------------------------------------------------------|------|--------------------------------------|
| Serious eye damage, category 1                                    | H318 | It causes serious eye damage.        |
| Skin irritation, category 2                                       | H315 | It causes skin irritation.           |
| Specific toxicity for target organs - single exposure, category 3 | H335 | It may cause respiratory irritation. |
| Skin sensitization, category 1                                    | H317 | It may cause allergic skin reaction. |

### 2.2 Label elements

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.



Warning



Danger

|                |                                                                                                    |
|----------------|----------------------------------------------------------------------------------------------------|
| Hazard:        |                                                                                                    |
| H318           | It causes serious eye damage.                                                                      |
| H315           | It causes skin irritation.                                                                         |
| H335           | It may cause respiratory irritation.                                                               |
| H317           | It may cause an allergic skin reaction.                                                            |
| Safety advice: |                                                                                                    |
| P264           | To wash hands thoroughly with soap and water after use.                                            |
| P272           | Contaminated work clothing should not be allowed out of workplace.                                 |
| P280           | Wear protective gloves and protect eyes / face.                                                    |
| P304+P340      | IF INHALED: move the victim to fresh air and keep at rest in a position comfortable for breathing. |
| P310           | Immediately call a POISON CENTER or get medical advice/attention.                                  |
| P403+P233      | Keep container tightly closed and in a well-ventilated place..                                     |
| It contains:   | Hydrated lime                                                                                      |
|                | Concrete Portland Cr(VI) < 2 ppm                                                                   |

### 2.3 Other dangers

Based on available data, the product does not contain any PBT or vPvB substances as more than 0,1%

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance

No relevant information.

### 3.2 Miscele

It contains:

| Identification           | Conc. % | Classification 67/548/CEE. Classification 1272/2008 (CLP).             |
|--------------------------|---------|------------------------------------------------------------------------|
| <u>CALCIUM CARBONATE</u> |         |                                                                        |
| CAS. 471-34-1            | 55 - 60 | Substance with a community exposure limit in the workplace             |
| CE. 207-439-9            |         |                                                                        |
| INDEX. -                 |         |                                                                        |
| <u>HYDRATE LIME</u>      |         |                                                                        |
| CAS.1305-62-0            | 20 - 30 | Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335                    |
| CE. 215-137-3            |         |                                                                        |
| INDEX. -                 |         |                                                                        |
| <u>WHITE CONCRETE</u>    |         |                                                                        |
| CAS. 65997-15-1          | 10 - 20 | Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317 |
| CE. 266-043-4            |         |                                                                        |
| INDEX. -                 |         |                                                                        |

The full text of hazard (H) is specified in section 16 of the sheet.

## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

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

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention.

Do not induce vomiting unless explicitly authorised by a doctor.

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

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Follow doctor's instructions.

**5 FIREFIGHTING MEASURES****5.1 Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be conventional: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use water.

**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.

EQUIPMENT

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).

**6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing dust and provide adequate ventilation or wear a protective mask or an adequate protective equipment (see section 8).

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These directions are valid both for the workers to work which for emergency interventions.

**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**

Use dry cleanup methods such as vacuum cleaners or vacuum extraction (greased portable industrial, equipped with high efficiency particulate filters or equivalent techniques) that do not scatter dust in the environment.

Never use compressed air. Ensure that workers wear appropriate personal protective equipment (see section 8) in order to prevent inhalation of dust and contact with skin and eyes. Deposit spillage in containers for future use. Verify the compatibility of containers' material in section 7. Ensure adequate ventilation of the place affected by the loss. The disposal of contaminated material must be made in accordance with section 13.

**6.4 Reference to other sections**

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

**7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Handle the product after consultation with all other sections of the sheet. Store in sealed and labeled containers. Avoid dispersal into the environment. Avoid contact with eyes and skin and exposure to concentrations of dust holes. Avoid the development and deposition of dust. Use a localized ventilation system. Do not eat, nor drink, nor smoke while handling it. Remove contaminated clothing and equipment before entering eat areas.

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

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

**7.3 Specific end use(s)**

Information not available.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

|    |           |                                                                                          |
|----|-----------|------------------------------------------------------------------------------------------|
| EU | OEL EU    | Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE. |
|    | TLV-ACGIH | ACGIH 2014                                                                               |

#### CALCIUM CARBONATE

| Threshold limit value |       |                 |     |                     |     |         |
|-----------------------|-------|-----------------|-----|---------------------|-----|---------|
| Type                  | State | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm |         |
| TLV-ACGIH             |       | 10              |     |                     |     | inalab. |
| TLV-ACGIH             |       | 3               |     |                     |     | respir. |

#### HYDRATED LIME

| Threshold limit value                                          |       |                 |     |                     |     |         |
|----------------------------------------------------------------|-------|-----------------|-----|---------------------|-----|---------|
| Type                                                           | State | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm |         |
| OEL                                                            | EU    | 1               |     | 4                   |     | respir. |
| TLV-ACGIH                                                      |       | 5               |     |                     |     |         |
| Expected concentration of no effect on the environment - PNEC. |       |                 |     |                     |     |         |
| Reference value in fresh water                                 |       |                 |     | 490                 |     | mg/l    |
| Reference value for the terrestrial compartment                |       |                 |     | 1080                |     | mg/l    |

#### WHITE CONCRETE

| Threshold limit value |       |                 |     |                     |     |  |
|-----------------------|-------|-----------------|-----|---------------------|-----|--|
| Type                  | State | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm |  |
| TLV-ACGIH             |       | 1               |     |                     |     |  |

Legend:

(C) = CEILING ; INALAB = inhalable fraction ; RESPIR = Respirable fraction ; TORAC = Thoracic fraction.

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

NPI = no hazard identified.

It is recommended to consider in the process of risk assessment values for occupational exposure limits established by ACGIH for inert dusts not otherwise classified (PNOC respirable fraction: 3 mg/mc; PNOC inhalable fraction 10 mg/mc). If these limits are exceeded, we recommend the use of a P-type filter, the class (1, 2 or 3) must be chosen depending on the outcome of the risk assessment.

### 8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration. For the selection of personal protective equipment, if necessary, request advice from your chemical substance suppliers.

The personal protective equipment must bear the CE marking attesting to their compliance with applicable regulations. Provide emergency shower with a pan for face and eyes.

#### HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). Final selection of the material of the gloves must be considered: compatibility, degradation, breakage times and permeation. In the case of preparations the resistance of protective gloves to chemicals should be checked before use, as expected. The gloves' limit depends on the duration and method of use.

#### SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use category II (ref. Directive 89/686/EEC and law EN ISO 20344). Wash with soap and water after removing protective clothing.

#### EYE PROTECTION

We recommend wearing hood visor or protective visor together with airtight goggles (ref. law EN 166).

#### RESPIRATORY PROTECTION

We recommend the use of a P-type filtering face mask (ref. law EN149), or equivalent device, the class (1, 2 or 3) and actual need will be defined depending on the outcome of the risk assessment.

#### ENVIRONMENTAL EXPOSURE CONTROLS.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

|                                         |               |
|-----------------------------------------|---------------|
| Appearance                              | powder        |
| Colour                                  | beige         |
| Odour                                   | odorless      |
| Odour threshold                         | Not available |
| pH                                      | Not available |
| Melting point / freezing point          | Not available |
| Initial boiling point                   | Not available |
| Boiling range                           | Not available |
| Flash point                             | > 60 °C       |
| Evaporation rate                        | Not available |
| Flammability (solid, gas)               | Not available |
| Lower inflammability limit              | Not available |
| Upper inflammability limit              | Not available |
| Lower explosive limit                   | Not available |
| Upper explosive limit                   | Not available |
| Vapour pressure                         | Not available |
| Vapour density                          | Not available |
| Relative density                        | Not available |
| Solubility                              | Not available |
| Partition coefficient:: n-octanol/water | Not available |
| Auto-ignition temperature               | Not available |
| Decomposition temperature               | Not available |
| Viscosity                               | Not available |
| Explosive properties                    | Not available |
| Oxidising properties                    | Not available |

**9.2 Other information not available**

|                           |                              |
|---------------------------|------------------------------|
| Conduktivita':            | N.D.                         |
| Proprietà esplosive:      | N.A. ( Internal evaluation ) |
| Proprietà ossidanti:      | N.A. ( Internal evaluation ) |
| Velocità di evaporazione: | N.A.                         |

**10 STABILITY AND REACTIVITY****10.1 Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.  
When mixed with water, it hardens forming a stable mass that does not react with the environment.

**10.2 Chemical stability**

The product is stable in normal conditions of use and storage.  
It must be kept dry. It should be avoided contact with incompatible materials.  
The wet concrete is alkaline and incompatible with acids, with ammonium salts, with aluminum and other non-noble metals. The concrete in contact with the hydrofluoric acid decomposes producing corrosive silicon tetrafluoride gas. The concrete reacts with the water and forms silicates and calcium hydroxide.  
Silicates in cement react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.  
The package integrity and compliance with the conservation mode mentioned in section 7.2 are able to conserve the quality.

**10.3 Possibility of hazardous reactions**

INo hazardous reactions are foreseeable in normal conditions of use and storage.

Hydrated lime reacts esothermically with acids. If heated to more than 580°C, calcium dihydroxide decomposes to form calcium oxide (CaO) and water (H<sub>2</sub>O):  $\text{Ca(OH)}_2 \times \text{CaO} + \text{H}_2\text{O}$ .

Calcium oxide reacts with water, generating heat. This can endanger the flammable material.

Concrete decomposes with hydrofluoric acid with formation of H<sub>2</sub>SiF<sub>6</sub> (silicon tetrafluoride), which is corrosive.

Concrete reacts with water to form silicates and calcium hydroxide. Silicates in concrete react with powerful oxidizers such as fluorine, boron trifluoride, manganese trifluoride and oxygen difluoride.

**10.4 Conditions to avoid**

Prevent the accumulation of dust in the environment.

Conditions of moisture during storage may cause lump formation and loss of product quality.

**10.5 Incompatible materials**

Keep away from water or from damp environments.

The wet concrete is alkaline and incompatible with acids, with ammonium salts, with aluminium and other non-noble metals. In contact with the wet concrete aluminium powder causes the formation of hydrogen.

Hydrated lime reacts exothermically with aluminium and with the brass, thus forming hydrogen.

**10.6 Hazardous decomposition products**

Under normal conditions of storage and use, should be no hazardous decomposition products.

Hydrate lime reacts with the carbon dioxide, forming calcium carbonate, a widespread substance in nature.

**11 TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

ACUTE TOXICITY

Not classified. Based on available data, the classification criteria are not met.

CORROSION/ CUTANAL IRRITATION

The product is classified: Skin Irrit. 2(H315)

SEVERE OCULAR LESION/SEVERE OCULAR IRRITATION

The product is classified: Eye Dam. 1(H318)

RESPIRATORY OR CUTaneous SENSITIZATION

Not classified. Based on available data, the classification criteria are not met.

GERMINAL CELL MUTAGENICITY

Not classified. Based on available data, the classification criteria are not met.

CANCEROGENICITY

Not classified

TOXICITY FOR REPRODUCTION

Not classified. Based on available data, the classification criteria are not met.

SPECIFIC TOXICITY TO TARGET ORGANS (STOT) - SINGLE EXPOSURE

Not classified. Based on available data, the classification criteria are not met.

TARGET ORGAN SPECIFIC TOXICITY (STOT) - REPEATED EXPOSURE

Not classified. Based on available data, the classification criteria are not met.

HAZARDS IN CASE OF INHALATION

Not classified. Based on available data, the classification criteria are not met.

TOXICOLOGICAL INFORMATION ON THE MAIN SUBSTANCES IN THE PRODUCT

Calcium carbonate

LD<sub>50</sub> (Oral).> 6450 mg/kg Rats

Hydrated lime

LD<sub>50</sub> (Oral).> 2000 mg/kg Rats (OECD 425)

LD<sub>50</sub> (Cutaneous).> 2500 mg/kg Rabbit (OECD 402)

**11.2 Information on other hazards**

PROPERTIES OF INTERFERENCE WITH THE ENDOCRINAL SYSTEM

No endocrine disruptors present in concentrations  $\geq 0.1\%$ .

**12 ECOLOGICAL INFORMATION**

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

**12.1 Toxicity**

HYDRATED LIME

LC50 - Fish.

> 50.6 mg/l/96h Freshwater fish

EC50 - Shellfish

> 49.1 mg/l/48h

EC50 - Algae / Water plants

> 184.57 mg/l/72h

**12.2 Persistence and degradability**

Dopo l'indurimento il prodotto non presenta rischi di tossicità.

**12.3 Bioaccumulative potential**

Information not available

**12.4 Mobility in soil**

It may spread during manipulation in the form of powder

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Endocrine disrupting properties**

No endocrine disruptors present at a concentration  $\geq 0.1\%$

**12.7 Other adverse effects**

Information not available.

**13 DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Reuse, when possible. Neat 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.

CONTAMINATED PACKAGING

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

**14 TRANSPORT INFORMATION****14.1 ONU number**

Not applicable. N/A

**14.2 ONU shipping name**

ADR-Shipping name: N/A

IATA-Shipping name: N/A

IMDG-Shipping name: N/A

**14.3 Hazard classes connected to shipping**

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**14.4 Packaging group**

ADR-Packaging group: N/A

IATA-Packaging group: N/A

IMDG-Packaging group: N/A

**14.5 Environmental hazards**

Marine pollutant: No

Environmental pollutant: No

IMDG-EMS: N/A

**14.6 Special precautions for users**

Road and Rail (ADR-RID):

ADR-Exempt:

ADR-Label: N/A

ADR-Danger Identification Number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code):

Air (IATA):

IATA-Aircraft Passenger: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Secondary Cargo: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Storage and Handling: N/A

IMDG-Segregation: N/A

IMDG-Secondary Cargo: N/A

IMDG-Special Provisions: N/A

**14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code**

Not applicable. N/A

**15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislative Decree 9/4/2008 no. 81

D.M. Lavoro 26/02/2004 (Occupational Exposure Limits)

Directive 2010/75/EU

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) No. 2020/878

Regulation (EU) No. 286/2011 (ATP 2 CLP)

Regulation (EU) No. 618/2012 (ATP 3 CLP)

Regulation (EU) No. 487/2013 (ATP 4 CLP)

Regulation (EU) No. 944/2013 (ATP 5 CLP)

Regulation (EU) No. 605/2014 (ATP 6 CLP)

Regulation (EU) No. 2015/1221 (ATP 7 CLP)

Regulation (EU) No. 2016/918 (ATP 8 CLP)

Regulation (EU) No. 2016/1179 (ATP 9 CLP)

Regulation (EU) No. 2017/776 (ATP 10 CLP)

Regulation (EU) No. 2018/669 (ATP 11 CLP)

Regulation (EU) No. 2018/1480 (ATP 13 CLP)

Regulation (EU) No. 2019/521 (ATP 12 CLP)

Regulation (EU) No. 2020/217 (ATP 14 CLP)

Regulation (EU) No. 2020/1182 (ATP 15 CLP)

Regulation (EU) No. 2021/643 (ATP 16 CLP)

Regulation (EU) No. 2021/849 (ATP 17 CLP)

Regulation (EU) No. 2022/692 (ATP 18 CLP)

Restrictions relating to the product or contained substances according to Annex XVII of Regulation (EC) 1907/2006 (REACH) as amended:

Restrictions related to the product: 3

Restrictions related to the contained substances: None

Provisions related to EU Directive 2012/18 (Seveso III):

None

Regulation (EU) No 649/2012 (PIC Regulation)

No substances listed

Water hazard class (Germany):

Class 1: slightly hazardous.

SVHC Substances:

According to available data, the product does not contain SVHC substances in a proportion  $\geq 0.1\%$ .

## **15.2 Chemical safety assessment**

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **16 OTHER INFORMATION**

Text of indications of hazard H) 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       | Specific target organ toxicity - single exposure, category 3 |
| Skin Sens. 1  | Sensibilizzazione cutanea, categoria 1                       |
| H318          | It causes serious eye damage                                 |
| H315          | It causes skin irritation                                    |
| H335          | It may cause respiratory irritation                          |
| H317          | It may cause allergic skin reaction.                         |

Classification and procedure used to derive it according to Regulation (EC) 1272/2008 [CLP] in relation to mixtures:

Classification according to Regulation (EC) 1272/2008 Classification procedure

Skin Irrit. 2, H315 Calculation method

Eye Dam. 1, H318 Calculation method

STOT SE 3, H335 Calculation method

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESI (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006

- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. Regulation (EU) 2020/878
10. The Merck Index. Ed. 10
11. Manipulation of chemical safety
12. Niosh - Register of toxic effects of chemicals
13. INRS - Toxicological Data Sheet
14. Patty - Industrial hygiene and toxicology
15. N.I. Sax - Hazardous properties of industrial materials-7 Ed., 1989
16. ECHA Agency website

#### 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.

#### **BeriCalce S.r.l.**

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