

# PRODUCT SAFETY DATA SHEET

## CALCIUM OXIDE

Prepared in accordance with Regulation EC 1907/2006 (REACH), Regulation (EC) 1272/2008 (CLP, as amended)

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

#### **1.1 Identification of the substance or preparation**

|                            |   |
|----------------------------|---|
| Substance Name:            | Calcium Oxide   |
| Synonyms:                  | Calcium Oxide, Lime, Burnt lime, Un-slaked lime, Chemical lime, Calcium monoxide, Calcined limestone. |
| Chemical Name and Formula: | Calcium Oxide – CaO   |
| Trade Name:                | Calbux, Biocal, Limbase   |
| CAS N°:                    | 1305-78-8   |
| EINECS N°:                 | 215-138-9   |
| Molecular Weight:          | 56.08 g/mol   |
| EU Reach Registration No:  | 01-2119475325-36-0121   |
| UK Reach Registration No:  | UK-01-6025516321-8-0003   |

#### **1.2 Use of the substance**

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

Building material industry, Chemical industry, Agriculture, Biocidal use, Environmental protection (e.g. flue gas treatment, wastewater treatment, sludge treatment), Drinking water treatment, Feed, food and pharmaceutical industry, Civil engineering, Paper and paint industry

##### **1.2.1 Identified uses**

All uses listed in Table 1 of the Appendix of this SDS are identified uses

##### **1.2.2 Uses advised against**

No use identified in Table 1 of the Appendix of this SDS is advised against

#### **1.3 Company Identification**

|  |  |
|--|--|
| Name:  | Buxton Lime Limited  |
| Address:   | Tunstead House Annexe<br>Buxton<br>Derbyshire<br>SK17 8TG          |
| Phone:   | +44 (0)1298 446600   |
| E-mail of competent person responsible for SDS : | <a href="mailto:enquiry@buxtonlime.com">enquiry@buxtonlime.com</a> |

#### **1.4 Emergency telephone**

|   |  |
|---|--|
| UK/European Emergency N°:                           | 999/112                                    |
| Buxton Lime Transport Emergency Contact N°:         | +44 (0)1298 27500 (including out of hours) |
| Refer to Hospital Accident and Emergency Department |  |

## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1 Classification of the Substance**

#### **2.1.1 Classification according to Regulation (EC) 1272/2008**

STOT Single Exp. 3, H335 Route of exposure: Inhalation

Skin Irritation 2, H315

Eye Damage 1, H318

#### **2.1.2 Additional information**

*For full text of H-statements and P-phrases; see SECTION 16*

### **2.2 Label elements**

#### **2.2.1 Labelling according to Regulation (EC) 1272/2008**

Signal word: Danger

Hazard pictogram:



Hazard statements:

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

Precautionary statements:

P102: Keep out of reach of children

P280: Wear protective gloves/protective clothing/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

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

P310: Immediately call a POISON CENTRE or doctor/physician

P261: Avoid breathing dust/spray

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P501: Dispose of contents/container in accordance with local/regional/national/international regulation

### **2.3 Other hazards**

No other hazards identified.

The substance does not meet the criteria for PBT or vPvB substance according to Regulation (EC) No 1907/2006, Annex XIII.

The substance is not included in the Candidate List of substances of very high concern for Authorisation.

The substance is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Composition

| CAS number | EC number | Registration No                                     | Identification name | Weight % content (or range) | Classification according to Regulation (EC) No 1272/2008 [CLP]                           |
|------------|-----------|---|---------------------|-----------------------------|--|
| 1305-78-8  | 215-138-9 | EU 01-2119475325-36-0121<br>UK-01-6025516321-8-0003 | Calcium Oxide       | 88 – 99%                    | <i>Eye Dam 1 H318</i><br><i>Skin Irrit. 2 H315</i><br><i>STOT SE 3 (inhalation) H335</i> |

Impurities:

No impurities relevant for classification and labelling.

Small quantities of calcium carbonate and impurities. Impurities in lime products will vary from source to source.

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of First Aid measures

#### General Advice

No known delayed effects. Consult a physician for all exposures except for minor instances.

#### Following Eye Contact

Rinse eyes immediately with plenty of water and seek medical advice.

#### Following Inhalation

Move source of dust or move person to fresh air. Obtain medical attention immediately.

#### Following Ingestion

Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Obtain medical attention.

#### Following Skin Contact

Carefully and gently brush the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water. Remove contaminated clothing. If necessary, seek medical advice.

#### Self-protection of the first aider

Avoid contact with skin, eyes and clothing – wear suitable protective equipment (see section 8.2.2)

Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8.2.2).

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

Calcium oxide is not acutely toxic via the oral, dermal, or inhalation route. The substance is classified as irritating to skin and the respiratory tract and entails a risk of serious damage to the eye. There is no concern for adverse systemic effects because local effects (pH effect) are the major health hazard.

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

Follow the advice given in section 4.1



## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1.1 Suitable extinguishing media

The product is not combustible. Use a dry powder, foam or CO<sub>2</sub> fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.1.2 Unsuitable extinguishing media

Do not use water. Avoid humidification.

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

Calcium oxide reacts with water and generates heat. This may cause risk to flammable material.

### 5.3 Advice for fire fighters

Avoid generation of dust. Use breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation.

Keep dust levels to a minimum.

Keep unprotected persons away.

Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8).

Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).

Avoid humidification

#### 6.1.2 For emergency responders

Ensure adequate ventilation

Keep dust levels to a minimum

Keep unprotected persons away

Avoid contact with skin, eyes and clothing – wear suitable protective equipment (see section 8)

Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable equipment (see section 8)

Avoid humidification

### 6.2 Environmental precautions

Contain the spillage. Keep the material dry if possible. Cover area if possible to avoid unnecessary dust hazard. Avoid uncontrolled spills to watercourses and drains (pH increase). Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

### 6.3 Methods and material for containment and cleaning up

In all cases avoid dust formation.

Keep the material dry if possible.

Pick up the product mechanically in a dry way.

Use vacuum suction unit, or shovel into bags.

### 6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Appendix of this safety data sheet.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

#### 7.1.1 Protective Measures

Avoid contact with skin and eyes. Wear protective equipment (refer to section 8 of this safety data sheet). Do not wear contact lenses when handling this product. It is also advisable to have individual pocket eyewash. Keep dust levels to a minimum. Minimise dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

#### 7.1.2 Advice on general occupational hygiene

Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

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

The substance should be stored under dry conditions. Any contact with air and moisture should be avoided. Bulk storage should be in purpose-designed silos. Keep away from acids, significant quantities of paper, straw, and nitro compounds. Keep out of reach of children. Do not use aluminium for transport or storage if there is a risk of contact with water.

### 7.3 Specific end use(s)

Please check the identified uses in table 1 of the Appendix of this SDS.

For more information please see the relevant exposure scenario, available via your supplier/given in the Appendix, and check '2.1: Control of worker exposure'.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### DNELs:

| Route of exposure | Workers                                    |                        |  |                          |
|-------------------|--|------------------------|--|--------------------------|
|                   | Acute effect local                         | Acute effects systemic | Chronic effects local                      | Chronic effects systemic |
| Oral              | Not required                               |                        |  |                          |
| Inhalation        | 4 mg / m <sup>3</sup><br>(Respirable dust) | No hazard identified   | 1 mg / m <sup>3</sup><br>(Respirable dust) | No hazard identified     |
| Dermal            | Hazard identified but no DNEL available    | No hazard identified   | Hazard identified but no DNEL available    | No hazard identified     |

| Route of exposure | Consumers                                  |                        |  |                          |
|-------------------|--|------------------------|--|--------------------------|
|                   | Acute effect local                         | Acute effects systemic | Chronic effects local                      | Chronic effects systemic |
| Oral              | No exposure expected                       | No hazard identified   | No exposure expected                       | No hazard identified     |
| Inhalation        | 4 mg / m <sup>3</sup><br>(Respirable dust) | No hazard identified   | 1 mg / m <sup>3</sup><br>(Respirable dust) | No hazard identified     |
| Dermal            | Hazard identified but no DNEL available    | No hazard identified   | Hazard identified but no DNEL available    | No hazard identified     |

#### PNECs:

| Environment protection target      | PNEC                  | Remarks                          |
|------------------------------------|-----------------------|----------------------------------|
| Fresh water                        | 0.37 mg / L           |                                  |
| Freshwater sediments               | No PNEC available     | Insufficient data available      |
| Marine water                       | 0.24 mg / L           |                                  |
| Marine sediments                   | No PNEC available     | Insufficient data available      |
| Food (bioaccumulation)             | No hazard identified  | No potential for bioaccumulation |
| Microorganisms in sewage treatment | 2.27 mg / L           |                                  |
| Soil (agricultural)                | 817.4 mg / kg soil dw |                                  |
| Air                                | No hazard identified  |                                  |

#### OELs:

|                        |   |
|------------------------|---|
| 8 hours limit value    | 1 mg/m <sup>3</sup> respirable fraction |
| Short-term limit value | 4 mg/m <sup>3</sup> respirable fraction |

According to Directive (EU) 2017/164 of 31 January 2017

**United Kingdom:**

Occupational Exposure Limits (OEL) (8hr TWA): 2 mg/m<sup>3</sup>

**8.2 Exposure controls**

Generation of dust should be avoided. Further, appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

Please check the relevant exposure scenario, given in the Appendix available via your supplier

**8.2.1 Appropriate engineering controls**

If user operations generate dust, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne dust levels below recommended exposure limits.

**8.2.2 Individual protection measures, such as Personal Protective Equipment**

**8.2.2.1 Eye/face protection:**

Do not wear contact lenses. Tight fitting goggles with side shields (frame goggles), or wide vision full goggles in accordance with EN 166:2001, at least optical class 2, mechanical strength F. It is also advisable to have individual pocket eyewash.



**8.2.2.2 Skin protection:**

Since calcium oxide is classified as irritating to skin, dermal exposure has to be minimised as far as technically feasible. The use of protective gloves (nitrile (NBR) in accordance with EN ISO 374-1: 2018/type A or B (test chemical K, at least 0,2 mm thick)), protective standard working clothes fully covering skin, full length trousers, long sleeved overalls, with close fittings at openings and shoes resistant to caustics and avoiding dust penetration are required to be worn.



**8.2.2.3 Respiratory protection:**

Local ventilation to control airborne dust levels below occupational exposure limits is recommended.

A suitable particle filter mask is recommended, depending on the expected exposure levels (low dust level: FFP1 mask; medium dust level: FFP2 mask; high dust level: FFP3 mask) - please check the relevant exposure scenario, given in the Appendix.



**8.2.2.4 Thermal Hazards:**

The substance does not represent a thermal hazard, thus special consideration is not required.

**8.2.3 Environmental exposure control**

All ventilation systems should be filtered before discharge to atmosphere.

Avoid releasing to the environment.

Contain the spillage. Any large spillage into watercourses must be alerted to the regulatory authority responsible for environmental protection or other regulatory body.

For detailed explanations of the risk management measures that adequately control exposure of the environment to the substance please check the relevant exposure scenario, available via your supplier.

For further detailed information, please check the Appendix of this SDS.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1: Information on basic physical and chemical properties**

|                   |   |
|-------------------|---|
| Appearance:       | White or off-white (beige) solid material of varying sizes: Lump, granular or fine powder |
| Odour:            | odourless   |
| Odour threshold:  | not applicable  |
| pH:               | 12.3 (saturated solution at 20 °C)  |
| Melting point:    | > 450 °C (study result, EU A.1 method)  |
| Boiling point:    | Not applicable (solid with a melting point > 450°C)                                       |
| Flash point:      | Not applicable (solid with a melting point > 450 °C)                                      |
| Evaporation rate: | Not applicable (solid with a melting point > 450°C)                                       |

|                            |   |
|----------------------------|---|
| Flammability:              | Non flammable (study result, EU A.10 method)        |
| Explosive limits:          | Non-explosive                                       |
| Vapour pressure:           | Not applicable (solid with a melting point > 450°C) |
| Vapour density:            | Not applicable                                      |
| Relative density:          | 3.31 (study result, EU A.3 method)                  |
| Solubility in water:       | 1337.6 mg/L (study results, EU A.6 method)          |
| Partition coefficient:     | Not applicable (inorganic substance)                |
| Auto ignition temperature: | Not applicable to solids                            |
| Decomposition temperature: | Decomposes at temperatures > 450°C                  |
| Viscosity:                 | Not applicable (solid with a melting point > 450°C) |
| Explosive properties:      | Non-explosive                                       |
| Oxidising properties:      | No oxidising properties                             |
| Particle characteristics:  | Refer to supplier Technical Data Sheet              |

## 9.2 Other Information

Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Calcium oxide reacts exothermically with water to form Calcium dihydroxide

### 10.2 Chemical stability

Under normal conditions of use and storage (dry conditions), calcium oxide is stable

### 10.3 Possibility of hazardous reactions

Calcium oxide reacts exothermically with acids to form calcium salts

### 10.4 Conditions to avoid

Minimise exposure to air and moisture to avoid degradation.

### 10.5 Incompatible materials

Calcium oxide reacts exothermically with water to form Calcium dihydroxide:



Calcium oxide reacts exothermically with acids to form salts.

Calcium dihydroxide reacts with aluminium and brass in the presence of moisture leading to the production of hydrogen:  $\text{CaO} + 2 \text{Al} + 7 \text{H}_2\text{O} \rightarrow \text{Ca[Al(OH)}_4\text{]}_2 + 3 \text{H}_2$

### 10.6 Hazardous decomposition products

None. Further information: Calcium oxide absorbs moisture and carbon dioxide from air to form calcium carbonate, which is a common material in nature.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity:

Oral: LD<sub>50</sub>> 2000 mg/kg bw (OECD 425, rat)

Dermal: LD<sub>50</sub>> 2500 mg/kg bw (calcium dihydroxide OECD 402, rabbit); by read across these results are also applicable to calcium oxide, since in contact with moisture calcium hydroxide is formed.

Inhalation: no data available

Calcium oxide is not acutely toxic

**Skin irritation / corrosion:**

Calcium oxide is irritating to skin (in vivo, rabbit).

Calcium dihydroxide is not corrosive to skin (in vitro, OECD 4321) By read across these results are also applicable to calcium oxide.

**Serious eye damage/irritation:**

Calcium oxide entails a risk of serious damage to the eye (in vivo, rabbit)

**Respiratory or skin sensitisation:**

No data available.

Calcium oxide is considered not to be a skin sensitiser, based on the nature of the effect (pH shift) and the essential requirement of calcium for human nutrition

**Germ cell mutagenicity:**

Calcium dihydroxide is not genotoxic (in vitro, OECD 471, 473 and 476) By read across these results are also applicable to calcium oxide.

In view of the omnipresence and essentiality of Ca and of the physiological non-relevance of any pH shift induced by lime in aqueous media, CaO is obviously void of any genotoxic potential.

**Carcinogenicity:**

Calcium (administered as Ca-lactate) is not carcinogenic (experimental result, rat). The pH effect of calcium oxide does not give rise to a carcinogenic risk.

Human epidemiological data support lack of any carcinogenic potential of calcium oxide.

**Reproductive toxicity:**

Calcium (administered as Ca-carbonate) is not toxic to reproduction (experimental result, mouse).

The pH effect does not give rise to a reproductive risk.

Human epidemiological data support lack of any potential for reproductive toxicity of calcium dihydroxide.

Both in animal studies and human clinical studies on various calcium salts no reproductive or developmental effects were detected. Also see the Scientific Committee on Food (Section 16.6). Thus, calcium oxide is not toxic for reproduction and/or development.

**STOT – single exposure:**

From human data it is concluded that CaO is irritating to the respiratory tract. As summarised and evaluated in the SCOEL recommendation (Anonymous, 2008), based on human data calcium oxide is irritating to the respiratory system.

**STOT – repeated exposure:**

Toxicity of calcium via the oral route is addressed by upper intake levels (UL) for adults determined by the Scientific Committee on Food (SCF), being UL = 2500 mg/d, corresponding to 36 mg/kg bw/d (70 kg person) for calcium.

Toxicity of CaO via the dermal route is not considered as relevant in view of the anticipated insignificant absorption through skin and due to local irritation as the primary health effect (pH shift).

Toxicity of CaO via inhalation (local effect, irritation of mucous membranes) is addressed by an 8-h TWA determined by the Scientific Committee on Occupational Exposure Limits (SCOEL) of 1 mg/m<sup>3</sup> fine fraction dust (see Section 8.1).

**Aspiration hazard:**

Calcium oxide is not known to present an aspiration hazard.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Available data for the substance have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply.

**11.2.2 Other information**

None



## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

#### **12.1.1 Acute/Prolonged toxicity to fish:**

LC<sub>50</sub> (96h) for freshwater fish: 50.6 mg/l (calcium dihydroxide)

LC<sub>50</sub> (96h) for marine water fish: 457 mg/l (calcium dihydroxide)

#### **12.1.2 Acute/Prolonged toxicity to aquatic invertebrates:**

EC<sub>50</sub> (48h) for freshwater invertebrates: 49.1 mg/l (calcium dihydroxide)

LC<sub>50</sub> (96h) for marine water invertebrates: 158 mg/l (calcium dihydroxide)

#### **12.1.3 Acute/Prolonged toxicity to aquatic plants:**

EC<sub>50</sub> (72h) for freshwater algae: 184.57 mg/l (calcium dihydroxide)

NOEC (72h) for freshwater algae: 48 mg/l (calcium dihydroxide)

#### **12.1.4 Toxicity to microorganisms e.g. bacteria:**

At high concentration, through the rise of temperature and pH, calcium oxide is used for disinfection of sewage sludges.

#### **12.1.5 Chronic toxicity to aquatic organisms:**

NOEC (14d) for marine water invertebrates: 32 mg/l (calcium dihydroxide)

#### **12.1.6 Toxicity to soil dwelling organisms:**

EC 10/LC10 or NOEC for soil macroorganisms: 2000 mg/kg soil dw (calcium dihydroxide)

EC 10/LC10 or NOEC for soil microorganisms: 12000 mg/kg soil dw (calcium dihydroxide)

#### **12.1.7 Toxicity to terrestrial plants:**

NOEC (21d) for terrestrial plants: 1080 mg/kg (calcium dihydroxide)

#### **12.1.8 General effect:**

Acute pH effect. Although this product is useful to correct water acidity, an excess of more than 1 g/l may be harmful to aquatic life. pH value of > 12 will rapidly decrease as result of dilution and carbonation.

#### **12.1.9 Further information:**

The results by read across are also applicable to calcium oxide, since in contact with moisture calcium hydroxide is formed.

### **12.2 Persistence and degradability**

Not relevant for inorganic substance

### **12.3 Bioaccumulative potential**

Not relevant for inorganic substance

### **12.4 Mobility in soils**

Calcium oxide reacts with water and/or carbon dioxide to form respectively calcium dihydroxide and/or calcium carbonate, which are sparingly soluble, and presents a low mobility in most soils

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

Not relevant for inorganic substances

### **12.6 Endocrine disrupting properties**

Available data for the substance have been considered against the criteria laid down in Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and found not to apply.

### **12.7 Other adverse effects**

No other adverse effects are identified. According to the criteria of the European classification and labelling system, the substance does not require classification as hazardous for the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment:**

Disposal of calcium oxide should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with applicable member state and local requirements. The used packing is only meant for packing this product; it should not be reused for other purposes. After usage, empty the packing completely.

### **14: TRANSPORT INFORMATION**

Calcium oxide is not classified as hazardous for transport (ADR (Road), RID (Rail), AND (inland waterways) and (IMDG (sea)). Calcium oxide is, however, classified as hazardous for air transport (ICAO/IATA).

- |              |  |   |
|--------------|--|---|
| <b>14.1:</b> | UN No:   | UN 1910   |
| <b>14.2:</b> | UN Proper Shipping Name:   | Calcium Oxide   |
| <b>14.3:</b> | Transport Hazard classes:  | Class 8 (ICAO/IATA)   |
| <b>14.4:</b> | Packing Group:   | Group III (ICAO/IATA)   |
| <b>14.5:</b> | Environmental hazards:   | None  |
| <b>14.6:</b> | Special precautions for user:  | Avoid any release of dust during transportation, by using air-tight tanks for powders and covered trucks for pebbles. |
| <b>14.7:</b> | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not regulated   |

## **SECTION 15: REGULATORY INFORMATION**

### **15.1: Safety, Health and Environmental Regulations/Legislation specific for the substance**

- |                       |   |
|-----------------------|---|
| Authorisations:       | Not required  |
| Restrictions on use:  | None  |
| Other EU regulations: | Calcium oxide is not a SEVESO substance, not an ozone-depleting substance and not a persistent organic pollutant. |
| National regulations: | None  |

### **15.2: Chemical Safety Assessment**

A chemical safety assessment has been carried out for this substance.

### **16: OTHER INFORMATION**

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

#### **16.1 Indications of change**

The SDS has been revised to comply with Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of REACH.

#### **16.2: Abbreviations**

- |                    |  |
|--------------------|--|
| EC <sub>50</sub> : | median effective concentration                       |
| LC <sub>50</sub> : | median lethal concentration                          |
| LD <sub>50</sub> : | median lethal dose                                   |
| NOEC:              | no observable effect concentration                   |
| OEL:               | occupational exposure limit                          |
| PBT:               | persistent, bioaccumulative, toxic chemical          |
| PNEC:              | predicted no-effect concentration                    |
| SCOEL:             | Scientific Committee on occupational exposure limits |
| STEL:              | short-term exposure limit                            |
| TWA:               | time weighted average                                |
| vPvB:              | very persistent, very bioaccumulative chemical       |

#### **16.3: Key Literature References**

Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document]

Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)<sub>2</sub>), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

#### **16.4: Relevant H-statements and P-phrases**

##### Hazard Statements

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

##### Precautionary statements:

P102: Keep out of reach of children  
P280: Wear protective gloves/protective clothing/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.  
P302+P352: IF ON SKIN: Wash with plenty of water  
P310: Immediately call a POISON CENTER or doctor/physician.  
P261: Avoid breathing dust/spray  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

#### **DISCLAIMER**

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

**APPENDIX including Exposure Scenarios 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.12, 9.13, 9.14, 9.15 and 9.16**

**END OF SAFETY DATA SHEET**