**Safety Data Sheet**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

**BIOCALCE INTONACHINO GRANELLO**

Date of first edition: 7/4/2023

Safety Data Sheet dated 26/03/2026

version 11

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

### 1.1. Product identifier

Mixture identification:

Trade name: BIOCALCE INTONACHINO GRANELLO

Trade code: S100K0264 51

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

Recommended use: Mortar for plasters/renders

Uses advised against: All uses other than recommended ones

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

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Skin Irrit. 2 | Causes skin irritation. |
| Eye Dam. 1 | Causes serious eye damage. |
| STOT SE 3 | May cause respiratory irritation. |

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

**Regulation (EC) No 1272/2008 (CLP):**

**Hazard pictograms and Signal Word**



Danger

**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. |
| P260 | Do not breathe dust. |
| P280 | Wear protective gloves and eye protection. |

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

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

P501 Dispose of contents/container in accordance with applicable regulations.

**Contains**

Natural Hydraulic Lime

Calcium dihydroxide

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

None.

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

**3.1. Substances**

N.A.

**3.2. Mixtures**

Mixture identification: BIOCALCE INTONACHINO GRANELLO

**Hazardous components within the meaning of the CLP regulation and related classification:**

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|---|---|---|---|---|
| ≥10-<20 % | Natural Hydraulic Lime | CAS:85117-09-5<br>EC:285-561-1 | Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335 | |
| ≥10-<20 % | Calcium dihydroxide | CAS:1305-62-0<br>EC:215-137-3 | Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335 | 01-2119475151-45 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non emergency personnel:**

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Advice on general occupational hygiene:**

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Community Occupational Exposure Limits (OEL)**

| | OEL Type | Country | Occupational Exposure Limit |
|---|---|---|---|
| Limestone<br>CAS: 1317-65-3 | NATIONAL | BULGARIA | Long Term: 10 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | ESTONIA | Long Term: 10 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | ESTONIA | Long Term: 5 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | GREECE | Long Term: 10 mg/m3 |

| | | | |
|---|---|---|---|
| | | | εισπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | GREECE | Long Term: 5 mg/m3<br>αναπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | SPAIN | Long Term: 10 mg/m3<br>(1) inhalable aerosol<br>Source: LEP 2022 |
| | NATIONAL | HUNGARY | Long Term: 10 mg/m3<br>N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | BELGIUM | Long Term: 10 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 4 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | SWITZERLAND | Long Term: 3 mg/m3<br>(1) respirable aerosol<br>Source: suva.ch/valeurs-limites |
| Calcium dihydroxide<br>CAS: 1305-62-0 | ACGIH | | Long Term: 5 mg/m3 (8h)<br>Eye, URT and skin irr |
| | NATIONAL | BELGIUM | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>R (14)<br>Source: 2017/164/EU |
| | NATIONAL | CYPRUS | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>9 (2019)<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| | NATIONAL | GERMANY | Long Term: 1 mg/m3<br>Y, EU, DFG, E, 2 (I)<br>Source: TRGS 900 |
| | NATIONAL | GREECE | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>9)<br>Source: Π.Δ. 82/2018 (ΦΕΚ 152/Α` 21.8.2018) |
| | NATIONAL | IRELAND | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>IOELV, R<br>Source: 2021 Code of Practice |
| | NATIONAL | ITALY | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Frazione respirabile<br>Source: D.lgs. 81/2008, Allegato XXXVIII |
| | NATIONAL | LATVIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LUXEMBOURG | Long Term: 5 mg/m3<br>11, 14<br>Source: Mémorial A n.226 du 22 mars 2021 |
| | NATIONAL | LUXEMBOURG | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>9, 14<br>Source: Mémorial A n.226 du 22 mars 2021 |
| | NATIONAL | MALTA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>10<br>Source: S.L.424.24 |
| | NATIONAL | PORTUGAL | Long Term: 1 mg/m3<br>(9)<br>Source: Decreto-Lei n.º 1/2021 |
| | NATIONAL | ROMANIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Fracțiune respirabilă, Dir. 2017/164 |

| | | |
|---|---|---|
| | | Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| NATIONAL | SLOVENIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Y, EU4, (A)<br>Source: UL št. 72, 11. 5. 2021 |
| NATIONAL | SPAIN | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>VLI, d<br>Source: LEP 2022 |
| NATIONAL | AUSTRIA | Long Term: 1 mg/m3; Short Term: Ceiling - 4 mg/m3<br>5(Mow), 8x, MAK, E<br>Source: GKV, BGBl. II Nr. 156/2021 |
| NATIONAL | BULGARIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>5<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| NATIONAL | CZECHIA | Long Term: 1 mg/m3; Short Term: Ceiling - 4 mg/m3<br>I, R<br>Source: Nařízení vlády č. 361-2007 Sb |
| NATIONAL | DENMARK | Long Term: 5 mg/m3<br>E<br>Source: BEK nr 2203 af 29/11/2021 |
| NATIONAL | DENMARK | Long Term: 1 mg/m3<br>E<br>Source: BEK nr 2203 af 29/11/2021 |
| NATIONAL | ESTONIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>1<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| NATIONAL | FINLAND | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Source: HTP-ARVOT 2020 |
| NATIONAL | FRANCE | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| NATIONAL | HUNGARY | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>resp, EU4, N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| NATIONAL | LITHUANIA | Long Term: 5 mg/m3<br>O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATIONAL | NETHERLANDS | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>(2)<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| NATIONAL | NORWAY | Long Term: 1 mg/m3<br>E<br>Source: FOR-2021-06-28-2248 |
| NATIONAL | NORWAY | Short Term: 4 mg/m3<br>S<br>Source: FOR-2021-06-28-2248 |
| NATIONAL | POLAND | Long Term: 2 mg/m3; Short Term: 6 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| NATIONAL | POLAND | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>6)<br>Source: Dz.U. 2018 poz. 1286 |
| NATIONAL | SLOVAKIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| NATIONAL | SWEDEN | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>3<br>Source: AFS 2021:3 |
| SUVA | SWITZERLAND | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>TWA mg/m3: (i), SSC, VRS / OAW, NIOSH<br>Source: suva.ch/valeurs-limites |

| | | | |
|---|---|---|---|
| | EU | | Long Term: 1 mg/m3 (8h); Short Term: 4 mg/m3<br>Respirable fraction |
| Calcium carbonate<br>CAS: 471-34-1 | NATIONAL | HUNGARY | Long Term: 10 mg/m3<br>inhalable aerosol<br>Source: 5/2020. (II. 6.) ITM |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Inhalable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 4 mg/m3<br>Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | FRANCE | Long Term: 10 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | LATVIA | Long Term: 6 mg/m3<br>Source: KN325P1 |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |
| Kaolin<br>CAS: 1332-58-7 | ACGIH | | Long Term: 2 mg/m3 (8h)<br>E,R, A4 - Pneumoconiosis |
| | NATIONAL | BELGIUM | Long Term: 2 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | DENMARK | Long Term: 2 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | FINLAND | Long Term: 2 mg/m3<br>alveolijae<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | IRELAND | Long Term: 2 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4), 7)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Fibpulm / Lungenfibrose<br>Source: suva.ch/valeurs-limites |
| | NATIONAL | CROATIA | Long Term: 2 mg/m3<br>R<br>Source: NN 1/2021 |
| sodium chloride<br>CAS: 7647-14-5 | NATIONAL | LATVIA | Long Term: 5 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LITHUANIA | Long Term: 5 mg/m3<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| Propane-1,2-diol<br>CAS: 57-55-6 | NATIONAL | CROATIA | Long Term: 474 mg/m3 - 150 ppm<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 470 mg/m3 - 150 ppm<br>Source: 2021 Code of Practice |

| | | |
|---|---|---|
| NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| NATIONAL | LATVIA | Long Term: 7 mg/m3<br>Source: KN325P1 |
| NATIONAL | LITHUANIA | Long Term: 7 mg/m3<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATIONAL | NORWAY | Long Term: 79 mg/m3 - 25 ppm<br>Source: FOR-2021-06-28-2248 |
| NATIONAL | POLAND | Long Term: 100 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |

**Predicted No Effect Concentration (PNEC) values**

| | |
|---|---|
| Natural Hydraulic Lime<br>CAS: 85117-09-5 | Exposure Route: Fresh Water; PNEC Limit: 574 µg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 574 µg/l |
| | Exposure Route: Marine water; PNEC Limit: 374 µg/l |
| | Exposure Route: Intermittent releases (marine water); PNEC Limit: 374 µg/l |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.511 mg/l |
| | Exposure Route: Soil; PNEC Limit: 1262 mg/kg |
| Calcium dihydroxide<br>CAS: 1305-62-0 | Exposure Route: Fresh Water; PNEC Limit: 490 µg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 490 µg/l |
| | Exposure Route: Marine water; PNEC Limit: 320 µg/l |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3 mg/l |
| | Exposure Route: Soil; PNEC Limit: 1080 mg/kg |

**Derived No Effect Level (DNEL) values**

| | |
|---|---|
| Natural Hydraulic Lime<br>CAS: 85117-09-5 | Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects<br>Worker Professional: 1 mg/m³; Consumer: 1 mg/m³ |
| | Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects<br>Worker Professional: 4 mg/m³; Consumer: 4 mg/m³ |
| Calcium dihydroxide<br>CAS: 1305-62-0 | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects<br>Worker Professional: 1 mg/m³; Consumer: 1 mg/m³ |
| | Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects<br>Worker Professional: 4 mg/m³; Consumer: 4 mg/m³ |

**8.2. Exposure controls**

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; EN 374:

Nitrile rubber - NBR: thickness ≥0,35mm; breakthrough time ≥480min.

Respiratory protection:

Particle filter P2 . EN 149

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

## SECTION 9: Physical and chemical properties

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

Physical state: Solid

Colour: Light grey

Odour: Characteristic

Odour threshold: N.A.

pH: =11.00 Notes: 1% ( OECD 122 )
Kinematic viscosity: N.A.
Melting point/freezing point: N.A.
Boiling point or initial boiling point and boiling range: N.A.
Flash point: Not Applicable
Lower and upper explosion limit: N.A. ( Not applicable as the mixture is not flammable )
Relative vapour density: N.A. ( Not applicable as the mixture is not liquid )
Vapour pressure: N.A. ( Not applicable as the mixture is not liquid )
Density and/or relative density: 1.40 kg/m3 ( EN 1097-03 )
Solubility in water: Slightly soluble
Solubility in oil: N.A. ( Not determined, as it is not required for CLP classification )
Partition coefficient n-octanol/water (log value): N.A. ( Not applicable to mixtures )
Auto-ignition temperature: N.A. ( Not applicable as the mixture is not flammable )
Decomposition temperature: N.A. ( Not applicable, as the mixture is not self-reactive )
Flammability: ; Not applicable as the mixture is not flammable
Volatile Organic compounds - VOCs = 0.01 % ; 0.00 g/l
**Particle characteristics:**
Particle size: N.A.

**9.2. Other information**

No other relevant information

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Data not available.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicological Information of the Preparation**

| | |
|---|---|
| a) acute toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | The product is classified: Skin Irrit. 2(H315) |
| c) serious eye damage/irritation | The product is classified: Eye Dam. 1(H318) |
| d) respiratory or skin sensitisation | Not classified |
| | Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| f) carcinogenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| g) reproductive toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| h) STOT-single exposure | The product is classified: STOT SE 3(H335) |
| i) STOT-repeated exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| j) aspiration hazard | Not classified |
| | Based on available data, the classification criteria are not met |

**Toxicological information on main components of the mixture:**

| | | |
|---|---|---|
| Natural Hydraulic Lime | a) acute toxicity | LD50 Oral Rat > 2000 mg/kg |
| | | LC50 Inhalation Dust Rat > 6.04 mg/l 4h |

| | | | |
|---|---|---|---|
| | | LD50 Skin Rabbit > 2500 mg/kg 24h | |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Positive 4h | |
| | c) serious eye damage/irritation | Eye Irritant Rabbit Yes | |
| | d) respiratory or skin sensitisation | Skin Sensitization Negative | Mouse |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral >= 400 mg/kg | Mouse |
| Calcium dihydroxide | a) acute toxicity | LD50 Oral Rat > 2000 mg/kg | |
| | | LC50 Inhalation Dust Rat > 6.04 mg/l 4h | |
| | | LD50 Skin Rabbit > 2500 mg/kg | |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Positive | |
| | c) serious eye damage/irritation | Eye Irritant Rabbit Yes | |
| | d) respiratory or skin sensitisation | Skin Sensitization Negative | |
| | f) carcinogenicity | Carcinogenicity Oral Rat = 517 mg/kg | NOAEL |

**11.2. Information on other hazards**

**Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

**List of Eco-Toxicological properties of the components**

| Component | Ident. Numb. | Ecotox Data |
|---|---|---|
| Natural Hydraulic Lime | CAS: 85117-09-5 - EINECS: 285-561-1 | a) Aquatic acute toxicity : LC50 Fish rainbow trout = 50.6 mg/L 96h ,,OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | | a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 49.1 mg/L 48h OECD 202 |
| | | b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = 32 mg/L - 14days |
| | | d) Terrestrial toxicity : NOEC Worm Eisenia fetida = 2000 mg/kg |
| | | e) Plant toxicity : EC10 = 1080 mg/kg |
| Calcium dihydroxide | CAS: 1305-62-0 - EINECS: 215-137-3 | a) Aquatic acute toxicity : LC50 Fish rainbow trout = 50.6 mg/L 96h |
| | | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 49.1 mg/L 48h |
| | | b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = 32 mg/L 48h - 14days |
| | | a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 184.57 mg/L 72h ,,OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | | a) Aquatic acute toxicity : EC50 Sludge activated sludge = 300.4 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test |
| | | d) Terrestrial toxicity : NOEC Worm Eisenia fetida = 2000 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests) |
| | | d) Terrestrial toxicity : EC10 soil microorganisms = 4000 mg/kg ,,Guideline: BBA VI, 1-1 (1990) under consideration of OECD 216 (2000) and OECD 217 |

(2000).

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

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

No PBT or vPvB substances present in concentration >= 0.1%

**12.6. Endocrine disrupting properties**

No endocrine disruptor substances present in concentration >= 0.1%

**12.7. Other adverse effects**

N.A.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

**Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):**

N.A.

## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

**14.1. UN number or ID number**

N/A

**14.2. UN proper shipping name**

ADR-Shipping Name: N/A

IATA-Shipping Name: N/A

IMDG-Shipping Name: N/A

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

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**14.4. Packing group**

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**14.5. Environmental hazards**

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

**14.6. Special precautions for user**

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisions: N/A

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

N.A.

---

## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

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) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 75

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

None

**Explosives precursors – Regulation 2019/1148**

No substances listed

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

No substances listed

**German Water Hazard Class.**

3: Severe hazard to waters

**German Lagerklasse according to TRGS 510:**

LGK 11

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

**Substances for which a Chemical Safety Assessment has been carried out:**

Natural Hydraulic Lime

Calcium dihydroxide

## SECTION 16: Other information

| Code | Description |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |

| Code | Hazard class and hazard category | Description |
|---|---|---|
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/1 | Eye Dam. 1 | Serious eye damage, Category 1 |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, Category 3 |

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|---|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| STOT SE 3, H335 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 15: Regulatory information

# Exposure Scenario
## Calcium dihydroxide

# Exposure Scenario, 24/06/2021

| Substance identity | |
|---|---|
| | Calcium dihydroxide |
| **CAS No.** | 1305-62-0 |
| **EINECS No.** | 215-137-3 |
| **Registration number** | 01-2119475151-45 |

## Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC9b, PC15)

# 1. ES 1 Widespread use by professional workers; Various products (PC9a, PC9b, PC15)

## 1.1 TITLE SECTION

| | |
|---|---|
| **Exposure Scenario name** | Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants |
| **Date - Version** | 24/06/2021 - 1.0 |
| **Life Cycle Stage** | Widespread use by professional workers |
| **Main user group** | Professional uses |
| **Sector(s) of use** | Professional uses (SU22) |
| **Product Categories** | Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (PC9b) - Non-metal surface treatment products (PC15) |

### Environment Contributing Scenario

| | |
|---|---|
| **CS1** | ERC8c - ERC8f |

### Worker Contributing Scenario

| | |
|---|---|
| **CS2 Material transfers** | PROC8a |
| **CS3 Hand application - finger paints, pastels, adhesives - Rolling, Brushing** | PROC10 |
| **CS4 Mixing operations - Manual** | PROC19 |

## 1.2 Conditions of use affecting exposure

### 1.2. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

| | |
|---|---|
| **Environmental release categories** | Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f) |

#### *Product (article) characteristics*

**Physical form of product:**

Solid, medium dustiness

**Vapour pressure:**

< 1E-05 Pa

### 1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

| | |
|---|---|
| **Process Categories** | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a) |

#### *Product (article) characteristics*

**Physical form of product:**

Solid, medium dustiness

#### *Amount used, frequency and duration of use/exposure*

**Duration:**

Exposure duration <= 480 min

#### *Technical and organisational conditions and measures*

**Technical and organisational measures**

| | |
|---|---|
| Ensure operatives are trained to minimise exposures.<br>Avoid direct eye contact with product, also via contamination on hands.<br>Do not ingest.<br>Local exhaust ventilation | Inhalation - minimum efficiency of: 72 % |

#### *Conditions and measures related to personal protection, hygiene and health evaluation*

**Personal protection**
Wear suitable gloves tested to EN374.
Use suitable eye protection.
Wear suitable face shield.

### *Other conditions affecting worker exposure*

Covers indoor and outdoor use
Professional use
**Temperature:** Covers use at ambient temperatures.
**Body parts exposed:**
Assumes that potential dermal contact is limited to upper part of the body.

### *Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.*

**Additional Good Practice Advice:**
Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

## 1.2. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

| | |
|---|---|
| **Process Categories** | Roller application or brushing (PROC10) |

### *Product (article) characteristics*

**Physical form of product:**
Solid, medium dustiness

### *Amount used, frequency and duration of use/exposure*

**Duration:**
Exposure duration <= 480 min

### *Technical and organisational conditions and measures*

**Technical and organisational measures**
Ensure operatives are trained to minimise exposures.
Avoid direct eye contact with product, also via contamination on hands.
Do not ingest.

### *Conditions and measures related to personal protection, hygiene and health evaluation*

**Personal protection**
Wear suitable gloves tested to EN374.
Use suitable eye protection.
Wear suitable face shield.

### *Other conditions affecting worker exposure*

Covers indoor and outdoor use
Professional use
**Temperature:** Covers use at ambient temperatures.

### *Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.*

**Additional Good Practice Advice:**
Ensure control measures are regularly inspected and maintained. Prevent leaks and prevent soil / water pollution caused by leaks.

## 1.2. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

| | |
|---|---|
| **Process Categories** | Manual activities involving hand contact (PROC19) |

### *Product (article) characteristics*

**Physical form of product:**
Solid, medium dustiness

### *Amount used, frequency and duration of use/exposure*

**Duration:**
Exposure duration <= 240 min

### *Technical and organisational conditions and measures*

**Technical and organisational measures**
Ensure operatives are trained to minimise exposures.
Avoid direct eye contact with product, also via contamination on hands.
Do not ingest.

Local exhaust ventilation
Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

### *Conditions and measures related to personal protection, hygiene and health evaluation*

**Personal protection**
Wear suitable gloves tested to EN374.
Use suitable eye protection.
Wear suitable face shield.

### *Other conditions affecting worker exposure*

Outdoor use
Professional use
**Temperature:** Covers use at ambient temperatures.
**Body parts exposed:**
Assumes that potential dermal contact is limited to upper part of the body.

### *Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.*

**Additional Good Practice Advice:**
Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

## 1.3 Exposure estimation and reference to its source

### 1.3. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

| protection target | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|---|---|---|
| soil | N/A | N/A | = 0.65 |

### 1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|---|---|---|
| inhalative | < 1 mg/m³ | MEASE | N/A |

### 1.3. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|---|---|---|
| inhalative | < 1 mg/m³ | MEASE | N/A |

**Additional information on exposure estimation:**
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

### 1.3. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|---|---|---|
| inhalative | < 1 mg/m³ | MEASE | N/A |

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

equivalent levels.

# Exposure Scenario
## Lime (chemical), hydraulic

## Exposure Scenario, 08/06/2021

| Substance identity | |
|---|---|
| | Lime (chemical), hydraulic |
| **CAS No.** | 85117-09-5 |
| **EINECS No.** | 285-561-1 |

## Table of contents

1. **ES 1** Service life - workers; Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

# 1. ES 1 Service life - workers; Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

## 1.1 TITLE SECTION

| | |
|---|---|
| **Exposure Scenario name** | Road and construction applications - Professional use of floor care products - Tackifier |
| **Date - Version** | 20/05/2021 - 1.0 |
| **Life Cycle Stage** | Service life - workers |
| **Main user group** | Professional uses |
| **Sector(s) of use** | Professional uses (SU22) |
| **Product Categories** | Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Non-metal surface treatment products (PC15) |
| **Article Category(ies)** | Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a) |

### Environment Contributing Scenario

| | |
|---|---|
| **CS1 Low environmental release** | ERC2 |

### Worker Contributing Scenario

| | |
|---|---|
| **CS2 Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers** | PROC8b - PROC9 - PROC26 |

## 1.2 Conditions of use affecting exposure

### 1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC2)

| | |
|---|---|
| **Environmental release categories** | Formulation into mixture (ERC2) |

#### *Product (article) characteristics*

**Physical form of product:**
Solid, very high dustiness

**Vapour pressure:**
< 1E-05 Pa

### 1.2. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9, PROC26)

| | |
|---|---|
| **Process Categories** | Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Handling of solid inorganic substances at ambient temperature (PROC8b, PROC9, PROC26) |

#### *Product (article) characteristics*

**Physical form of product:**
Solid, very high dustiness

#### *Amount used, frequency and duration of use/exposure*

**Duration:**
Exposure duration <= 240 min

**Frequency:**
Use frequency = 8 h/event

#### *Technical and organisational conditions and measures*

**Technical and organisational measures**
Provide a basic standard of general ventilation (1 to 3 air changes per hour).
Do not ingest.

#### *Conditions and measures related to personal protection, hygiene and health evaluation*

**Personal protection**
Wear suitable gloves tested to EN374.
Use eye protection according to EN 166.

Wear a respirator conforming to EN140.

### *Other conditions affecting worker exposure*

Indoor use
Professional use
**Temperature:** Covers use at ambient temperatures. 23°C

## 1.3 Exposure estimation and reference to its source

### 1.3. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9, PROC26)

| Exposure route, Health effect, Exposure indicator | Exposure level | Calculation method | Risk Characterization Ratio (RCR) |
|---|---|---|---|
| inhalative, local, short-term | < 1 mg/m³ | MEASE | N/A |

**Additional information on exposure estimation:**

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.