

Safety Data Sheet

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

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

1.1. Product identifier

Product name **PITTURA ALLA CALCE**
UFI : **0410-H0HE-0009-8W4C**

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

Intended use **Decorative water-based paint. Professional and home use.**

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name **OIKOS S.P.A. A SOCIO UNICO**
Full address **Via Cherubini 2**
District and Country **47043 Gatteo Mare (FC)**
Italia
Tel. **0547 681412**
Fax **0547 681430**
e-mail address of the competent person responsible for the Safety Data Sheet **certificazioniprodoti@oikos-group.it**

1.4. Emergency telephone number

For urgent inquiries refer to **NHS National Health Service 111**

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412
Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|--------------------------------|------|----------------------------|
| Serious eye damage, category 1 | H318 | Causes serious eye damage. |
| Skin irritation, category 2 | H315 | Causes skin irritation. |

2.2. Label elements

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

Hazard pictograms:



Signal words: **Danger**

Hazard statements:
H318 Causes serious eye damage.
H315 Causes skin irritation.

SECTION 2. Hazards identification ... / >>

EUH208 Contains: 1,2-benzisothiazol-3(2H)-one
May produce an allergic reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/ protective clothing / eye protection / face 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.
P310 Immediately call a POISON CENTER / doctor / . . .
P501 Dispose of contents / container in accordance with local regulation.

Contains: Calcium dihydroxide

VOC (Directive 2004/42/EC) :

Exterior walls of mineral substrate.

VOC given in g/litre of product in a ready-to-use condition : 26,00

Limit value: 40,00

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|--|-------------------------|--|
| Calcium dihydroxide | | |
| INDEX | $10 \leq x < 15$ | Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 |
| EC 215-137-3 | | |
| CAS 1305-62-0 | | |
| REACH Reg. 01-2119475151-45 | | |
| 2-methoxy-1-methylethyl acetate | | |
| INDEX | $0,13 \leq x < 0,135$ | Flam. Liq. 3 H226 |
| EC 203-603-9 | | |
| CAS 108-65-6 | | |
| REACH Reg. 01-2119475791-29 | | |
| 1-methoxypropan-2-ol | | |
| INDEX | $0,064 \leq x < 0,07$ | Flam. Liq. 3 H226, STOT SE 3 H336 |
| EC 203-539-1 | | |
| CAS 107-98-2 | | |
| REACH Reg. 01-2119457435-35 | | |
| 1,2-benzisothiazol-3(2H)-one | | |
| INDEX | $0,0079 \leq x < 0,009$ | Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC 220-120-9 | | Skin Sens. 1 H317: $\geq 0,05\%$ |
| CAS 2634-33-5 | | LD50 Oral: >490 mg/kg bw |
| REACH Reg. 01-2120761540-60 | | |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SECTION 4. First aid measures ... / >>

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

5.3. Advice for firefighters**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering

OIKOS

OIKOS S.P.A. A SOCIO UNICO

PITTURA ALLA CALCE

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Replaced revision:4 (Dated 15/12/2022)

EN

SECTION 7. Handling and storage ... / >>>

places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU

Deutschland

Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56

ESP

España

Límites de exposición profesional para agentes químicos en España 2021

FRA

France

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

ITA

Italia

Decreto Legislativo 9 Aprile 2008, n.81

POL

Polska

Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy

GBR

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

EU

OEL EU

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH

ACGIH 2022

2-methoxy-1-methylethyl acetate

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 270 | 50 | 270 | 50 | |
| MAK | DEU | 270 | 50 | 270 | 50 | |
| VLA | ESP | 275 | 50 | 550 | 100 | SKIN |
| VLEP | FRA | 275 | 50 | 550 | 100 | SKIN |
| VLEP | ITA | 275 | 50 | 550 | 100 | SKIN |
| NDS/NDSCh | POL | 260 | | 520 | | SKIN |
| WEL | GBR | 274 | 50 | 548 | 100 | SKIN |
| OEL | EU | 275 | 50 | 550 | 100 | SKIN |

Predicted no-effect concentration - PNEC

| | | |
|--|--------|-------|
| Normal value in fresh water | 0,635 | mg/l |
| Normal value in marine water | 0,0635 | mg/l |
| Normal value for fresh water sediment | 3,29 | mg/kg |
| Normal value for marine water sediment | 0,329 | mg/kg |
| Normal value for water, intermittent release | 635 | mg/l |
| Normal value of STP microorganisms | 100 | mg/l |
| Normal value for the terrestrial compartment | 0,29 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | |
|-------------------|----------------------|----------------|---------|--------------------|-------|----------------|---------|------------------|
| | Acute | Acute systemic | Chronic | Chronic systemic | Acute | Acute systemic | Chronic | Chronic systemic |
| Oral | | | | 1,67 | | | | |
| | | | | mg/kg/d | | | | |
| Inhalation | | | 10 | 33 | | | 10 | 275 |
| | | | | mg/m3 | | | | mg/m3 |
| Skin | | | | 54,8 | | | | 153,5 |
| | | | | mg/kg/d | | | | mg/kg/d |

EPY 11.5.1 - SDS 1004.14

SECTION 8. Exposure controls/personal protection ... / >>

1-methoxypropan-2-ol

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|-------------------|-----|-------------------|-----|------------------------|
| | | mg/m ³ | ppm | mg/m ³ | ppm | |
| AGW | DEU | 370 | 100 | 740 | 200 | |
| MAK | DEU | 370 | 100 | 740 | 200 | |
| VLA | ESP | 375 | 100 | 568 | 150 | SKIN |
| VLEP | FRA | 188 | 50 | 375 | 100 | SKIN |
| VLEP | ITA | 375 | 100 | 568 | 150 | SKIN |
| NDS/NDSch | POL | 180 | | 360 | | SKIN |
| WEL | GBR | 375 | 100 | 560 | 150 | SKIN |
| OEL | EU | 375 | 100 | 568 | 150 | SKIN |

Predicted no-effect concentration - PNEC

| | | |
|--|------|-------|
| Normal value in fresh water | 10 | mg/l |
| Normal value in marine water | 1 | mg/l |
| Normal value for fresh water sediment | 41,6 | mg/kg |
| Normal value for marine water sediment | 4,17 | mg/kg |
| Normal value for water, intermittent release | 100 | mg/l |
| Normal value of STP microorganisms | 100 | mg/l |
| Normal value for the terrestrial compartment | 2,47 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | Chronic local | Chronic systemic | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|---------------------------|--------------------|----------------|----------------------------|--------------------------|
| | Acute local | Acute systemic | | | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | | | 3,3 mg/kg/d | | |
| Inhalation | | | | 43,9 mg/m ³ | | | 553,5 mg/m ³ | 369 mg/m ³ |
| Skin | | | | 18,1 mg/kg/d | | | | 50,6 mg/kg/d |

Calcium dihydroxide

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|-------------------|-----|-------------------|-----|------------------------|
| | | mg/m ³ | ppm | mg/m ³ | ppm | |
| MAK | DEU | 1 | | 2 | | INHAL |
| VLA | ESP | 1 | | 4 | | |
| VLEP | FRA | 1 | | 4 | | |
| VLEP | ITA | 1 | | 4 | | RESP |
| NDS/NDSch | POL | 2 | | 6 | | INHAL |
| NDS/NDSch | POL | 1 | | 4 | | RESP |
| WEL | GBR | 5 | | | | INHAL |
| WEL | GBR | 1 | | 4 | | RESP |
| OEL | EU | 1 | | 4 | | RESP |
| TLV-ACGIH | | 5 | | | | |

Predicted no-effect concentration - PNEC

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

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | Chronic local | Chronic systemic | Effects on workers | | | |
|-------------------|------------------------|----------------|------------------------|------------------|------------------------|----------------|------------------------|------------------|
| | Acute local | Acute systemic | | | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | 4 mg/m ³ | | 1 mg/m ³ | | 4 mg/m ³ | | 1 mg/m ³ | |

SECTION 8. Exposure controls/personal protection ... / >>

1,2-benzisothiazol-3(2H)-one

Predicted no-effect concentration - PNEC

| | | |
|--|------|-------|
| Normal value in fresh water | 4,03 | µg/l |
| Normal value in marine water | 403 | ng/l |
| Normal value for fresh water sediment | 49,9 | µg/kg |
| Normal value for marine water sediment | 4,99 | µg/kg |
| Normal value of STP microorganisms | 1,03 | mg/l |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Chronic systemic | Effects on workers | | | Chronic systemic |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | | Acute local | Acute systemic | Chronic local | |
| Inhalation | | | | 1,2 mg/m3 | | | | 6,81 mg/m3 |
| Skin | | | | 345 µg/kg bw/d | | | | 966 µg/kg bw/d |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

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

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

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--------------------------------|-----------------------------------|-------------|
| Appearance | pasty liquid | |
| Colour | White and the colour chart shades | |
| Odour | Hydraulic binder | |
| Odour threshold | not applicable | |
| Melting point / freezing point | not applicable | |
| Initial boiling point | > 100 °C | |
| Boiling range | not applicable | |

SECTION 9. Physical and chemical properties ... / >>

| | | |
|--|------------------|---|
| Flammability | not flammable | |
| Lower explosive limit | not applicable | |
| Upper explosive limit | not applicable | |
| Flash point | > 60 °C | |
| Auto-ignition temperature | not applicable | |
| Decomposition temperature | not applicable | |
| Self-accelerating decomposition temperature (SADT) | not applicable | |
| pH | 12,5-13,5 | Method:Internal pH method IGQ/0024, CRISON Digital pH meter |
| Kinematic viscosity | not applicable | |
| Dynamic viscosity | 3000 cps | Method:Viscosity Internal Method IGQ/0027 BROOKFIELD Viscometer Remark:thixotropic |
| Solubility | Mixable in water | |
| Dissolution rate | | |
| Partition coefficient: n-octanol/water | not applicable | |
| Dispersion stability | | |
| Vapour pressure | not applicable | |
| Density and/or relative density | 1,5 | Method:Internal specific gravity method IGQ/0023, Pycnometer |
| Relative vapour density | not applicable | |
| Particle characteristics | not applicable | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

| | | |
|------------------------------|----------------|---------|
| VOC (Directive 2004/42/EC) : | 2,30 % - 34,53 | g/litre |
| VOC (volatile carbon) | 0,79 % - 11,88 | g/litre |
| Explosive properties | not applicable | |
| Oxidising properties | not applicable | |

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

1-methoxypropan-2-ol

Dissolves various plastic materials.Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

2-methoxy-1-methylethyl acetate

May react violently with: oxidising substances,strong acids,alkaline metals.

1-methoxypropan-2-ol

May react dangerously with: strong oxidising agents,strong acids.

10.4. Conditions to avoid

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

SECTION 10. Stability and reactivity ... / >>

1-methoxypropan-2-ol
Avoid exposure to: air.

10.5. Incompatible materials

2-methoxy-1-methylethyl acetate
Incompatible with: oxidising substances, strong acids, alkaline metals.

1-methoxypropan-2-ol
Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008Metabolism, toxicokinetics, mechanism of action and other information

2-methoxy-1-methylethyl acetate
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Calcium dihydroxide
ABSORPTION
The primary effect of calcium dihydroxide on health is local irritation caused by pH variation. Therefore, absorption is not a relevant parameter for the assessment of the effects of the substance.

Information on likely routes of exposure

2-methoxy-1-methylethyl acetate
WORKERS: inhalation; contact with the skin.

1-methoxypropan-2-ol
WORKERS: inhalation; contact with the skin.
POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

2-methoxy-1-methylethyl acetate
Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

1-methoxypropan-2-ol
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

| | |
|----------------------------------|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture: | Not classified (no significant component) |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

| | |
|---|--------------|
| 2-methoxy-1-methylethyl acetate LD50 (Oral): | > 5000 mg/kg |
|---|--------------|

SECTION 11. Toxicological information ... / >>

1-methoxypropan-2-ol

LD50 (Dermal):

> 2000 mg/kg Rabbit

LD50 (Oral):

4016 mg/kg Rat

Calcium dihydroxide

LD50 (Dermal):

> 2500 mg/kg Rabbit (OCSE 402)

LD50 (Oral):

> 2000 mg/kg Rat (OECD 425)

1,2-benzisothiazol-3(2H)-one

LD50 (Dermal):

2000 mg/kg bw (rat)

LD50 (Oral):

> 490 mg/kg bw 490-670 (rat)

SKIN CORROSION / IRRITATION

Causes skin irritation

Calcium dihydroxide

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Calcium dihydroxide

Causes severe eye injury

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

1,2-benzisothiazol-3(2H)-one

Calcium dihydroxide

Does not meet the classification criteria for this danger class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Calcium dihydroxide

Reverse Bacterial Mutation Essay (Ames Test, OECD 471): Negative

Testing chromosomal aberrations on mammal cells: negative

Given that calcium is an omnipresence and essential element and that any variation of the lime-induced pH in watery means has no relevance, calcium dihydroxide is overall devoid of any genotoxic potential. Classification by function of genotoxicity is not justified.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Calcium dihydroxide

Calcium (administered in the form of lactate) is not carcinogenic (experimental result, rat). The effect on pH on the product of calcium dihydroxide is free of any carcinogenic potential. Classification on the basis of carcinogenicity is not justified.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Calcium dihydroxide

Calcium (administered in the form of Ca carbonate) is not toxic for reproduction (experimental result, mouse). The effect on pH does not give rise to any reproductive risk. Human epidemiological data confirm that calcium dihydroxide is free of any potential toxicity. In both animal and clinical trials on different calcium salts, no effect has been identified on reproductive and developmental toxicity. v. also the Scientific Committee of Human Food (Anonymous, 2006). Therefore, calcium dihydroxide is not toxic for reproduction and/or development.

Classification on the basis of reproductive toxicity according to Regulation 1272/2008 is not necessary.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

Calcium dihydroxide
It can irritate the airways

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Calcium dihydroxide
The toxicity of calcium through the oral exposure pathway is demonstrated by the increase in maximum tolerable intake levels (UL) for adults determined by the Scientific Committee of Human Food (SCF), where UL-2500 mg/die, equal to 38 mg/kg of weight/die, equal to 38 mg/kg of weight/die (individual weighing 70 kg) for calcium.
The toxicity of Ca(OH)₂ through contact with the skin is not considered relevant by virtue of the expected insignificant absorption through the skin and the fact that local irritation is the primary effect for health (pH variation).
The toxicity of Ca(OH)₂ by inhalation (local effect, mucous irritation), taking into account an average time weighed for an 8-hour shift, was determined by the Scientific Committee for Occupational Exposure Limits (SCOEL) in 1 mg/m³ of breathable dust.
Therefore, the classification of Ca(OH)₂ on the basis of toxicity as a result of prolonged exposure is not necessarily

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

Calcium dihydroxide
Does not meet the classification criteria for this danger class

Calcium dihydroxide is classified as irritating to the skin and airways, and carries the risk of serious eye injury. The limit of occupational exposure for the prevention of sensory irritation at the local level and the reduction of lung function parameters as effects is OEL (8 hours) - 1 mg/m³ of breathable dust.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

12.1. Toxicity

Calcium dihydroxide
LC50 (96h) on sea fish: 457 mg/l
LC50 (96h) on sea invertebrates: 158 mg/l
NOEC (72 hours) on freshwater algae: 48 mg/l
TOXICITY ON MICROORGANISMS, ES BACTERIA
At high concentration, through temperature and pH rise, calcium dihydroxide is used for disinfection of sewer sludge.
NOEC (14 days) for sea invertebrates: 32 mg/l
EC10/LC10 or NOEC on soil macro-organisms: 2000 mg/kg soil dw
EC10/LC10 or NOEC on soil microorganisms: 12000 mg/kg soil dw
NOEC (21 days) on terrestrial plants: 1080 mg/kg
GENERAL EFFECT
Acute effect of pH. Although this substance is useful for correcting water acidity, excess over 1 g/l can be harmful to aquatic organisms. A value of pH > 12 will decrease rapidly and as a result of dilution and carbonation.

2-methoxy-1-methylethyl acetate
LC50 - for Fish > 100 mg/l/96h 100-180

SECTION 12. Ecological information ... / >>

| | |
|---|-------------------------------|
| 1-methoxypropan-2-ol LC50 - for Fish | 6,812 mg/l/96h |
| Calcium dihydroxide LC50 - for Fish | 50,6 mg/l/96h freshwater fish |
| EC50 - for Crustacea | 49,1 mg/l/48h invertebrate |
| EC50 - for Algae / Aquatic Plants | 184,57 mg/l/72h alga |
| 1,2-benzisothiazol-3(2H)-one LC50 - for Fish | > 2,15 mg/l 2,15-22 |
| EC50 - for Crustacea | > 2,9 mg/l 2,9-2,94 |
| EC50 - for Algae / Aquatic Plants | > 70 µg/l 70-150 |
| Chronic NOEC for Algae / Aquatic Plants | > 40,3 µg/l 40-55 |

12.2. Persistence and degradability

2-methoxy-1-methylethyl acetate
Rapidly degradable

1-methoxypropan-2-ol
Solubility in water
Rapidly degradable

1000 - 10000 mg/l

1,2-benzisothiazol-3(2H)-one
Rapidly degradable

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate
Partition coefficient: n-octanol/water

1,2

12.4. Mobility in soil

Calcium dihydroxide
Calcium dihydroxide is a moderately soluble substance and therefore has poor mobility in most soils.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

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



OIKOS S.P.A. A SOCIO UNICO

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SECTION 14. Transport information ... / >>

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

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

| | |
|---------------------|--------|
| Product | |
| Point | 3 - 40 |
| Contained substance | |
| Point | 75 |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :
Exterior walls of mineral substrate.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)
WGK 1: Low hazard to waters

SECTION 15. Regulatory information ... / >>

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances
Calcium dihydroxide

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|--------------------------|--|
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

SECTION 16. Other information ... / >>

10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03 / 09 / 16.