

Name of the product

Supercalco, mészhydrát

Version: 5.0/EN

Revision date: December / 2022

Printing Date: March 23, 2023

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1. Product identifier

Substance name: Calcium dihydroxide

Synonyms: Hydrated lime, Slaked lime, Air slaked lime, building lime, Fat lime, Chemical lime, Finishing lime, Mason's lime, Calcium dihydroxide, Calcium hydroxide, Calcium hydrate, Lime.
Please note that this list is not exhaustive.

Chemical name and formula: Calcium dihydroxide – Ca(OH)₂

CAS: 1305-62-0

EINECS: 215-137-3

Molecular Weight: 74.09 g/mole

REACH Registration number: 01-2119475151-45-0015

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

Use of the substance:

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

Building material industry, Chemical industry, Agriculture, Environmental protection (e.g., flue gas treatment, wastewater treatment and sludge treatment), 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. Details of the supplier of the safety data sheet

Name: Carmeuse Hungária Kft
Address: 7827 Beremend Hrsz. 064/1
Phone N°: + 36 72 574 930
Fax N°: +36 72 574 931
E-mail of competent responsible for SDS in the MS or in the EU: kereskedelem@carmeuse.hu

1.4. Emergency telephone number

European Emergency N°: **112**
National centre for Prevention and Treatment of Intoxications N°: ETSZ Egészségügyi Toxikológiai Tájékoztató Szolgálat
+ 36 1 476 6400 + 36 80 201199
Emergency telephone at the company: + 36 72 574 930
Available outside office hours: Yes No

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance

2.1.1. Classification according to Regulation (EC) 1272/2008

- Skin Irritation 2, H315
- STOT SE 3, H335 Route of exposure: Inhalation.
- Eye Damage 1, H318

2.1.2. Additional information: *For full text of H-statements and R-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

- The substance does not meet the criteria for PBT or vPvB substance.
- No other hazards identified.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Main constituent

CAS number	EC number	Registration No	Identification name	Weight % content (or range)	Classification according to Regulation (EC) No 1272/2008 [CLP]
1305-62-0	215-137-3	01-2119475151-45-0000	Calcium dihydroxide	100%	<i>Eye Dam 1 H318</i> <i>Skin Irritation 2 H315</i> <i>STOT SE 3 (inhalation) H335</i>

Impurities

No impurities relevant for classification and labelling

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 inhalation

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

Following skin contact

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

Following eye contact

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

After ingestion

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

Self-protection of the first aider

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).

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

- Calcium dihydroxide 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 advises given in section 4.1.

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5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Suitable extinguishing media

- The product is not combustible. Use a dry powder, foam or CO2 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.

5.2. Special hazards arising from the substance.

- Avoid dusting. Use breathing apparatus, take fire-fighting measures appropriate to local conditions and environment.

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.

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).

6.1.2. For emergency responders

- Keep dust levels to a minimum.
- Ensure adequate ventilation.
- Keep unprotected persons away.
- Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8).

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

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 Annex of this safety data sheet.

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. Minimize 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 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.

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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 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 of the Safety Data Sheet, check section 2.1: Control of worker exposure.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Workers				
Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required			
Inhalation	4 mg / m ³ (Respirable dust)	No hazard identified	1 mg / m ³ (Respirable dust)	No hazard identified
Dermal	Hazard identified but no DNEL available	No hazard identified	Hazard identified but no DNEL available	No hazard identified
Consumers				
Route of exposure	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 ³ (Respirable dust)	No hazard identified	1 mg / m ³ (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	0.49 mg / L	
Freshwater sediments	No PNEC available	Insufficient data available
Marine water	0.32 mg / L	
Marine sediments	No PNEC available	Insufficient data available
Food (bioaccumulation)	No hazard identified	No potential for bioaccumulation
Microorganisms in sewage treatment	3 mg / L	
Soil (agricultural)	1080 mg / kg soil dw	
Air	No hazard identified	

OELs:

8 hours limit value	1 mg/m ³ respirable fraction
Short-term limit value	4 mg/m ³ respirable fraction

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8.2. Exposure controls

- To control potential exposures, 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 Annex of this safety data sheet 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. For powders, tight fitting goggles with side shields, or wide vision full goggles. It is also advisable to have individual pocket eyewash.

8.2.2.2. Skin protection

Since calcium dihydroxide is classified as irritating to skin, dermal exposure has to be minimised as far as technically feasible. The use of protective gloves (nitrile), 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 keep levels below established threshold values is recommended. A suitable particle filter mask is recommended, depending on the expected exposure levels - please check the relevant exposure scenario, given in the Appendix/available via your supplier.

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 controls

- 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 Annex of this Safety Data Sheet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	White or off white (beige) fine powder
Odour:	odourless
Odour threshold:	not applicable
pH:	12.4 (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:	nonexplosive (void of any chemical structures commonly associated with explosive properties)
Vapour pressure:	not applicable (solid with a melting point > 450 °C)
Vapour density:	not applicable
Relative density:	2.24 (study result, EU A.3 method)
Solubility in water:	1844.9 mg/L (study results, EU A.6 method)
Partition coefficient:	not applicable (inorganic substance)
Auto- ignition temperature:	no relative self-ignition temperature below 400 °C (study result, EU A.16 method)
Decomposition temperature:	When heated above 580 °C, calcium dihydroxide decomposes to produce calcium oxide (CaO) and water (H ₂ O)
Viscosity:	not applicable (solid with a melting point > 450 °C)

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Explosive properties	non explosive (considered to be "inert" in the context of explosivity, since it represents calcium and oxygen being already in their preferred oxidation state)
Oxidising properties:	no oxidising properties (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)

9.2. Other information

- Not available

10. STABILITY AND REACTIVITY

10.1. Reactivity

- In aqueous media Ca(OH)_2 dissociates resulting in the formation of calcium cations and hydroxyl anions (when below the limit of water solubility).

10.2. Chemical stability

- Under normal conditions of use and storage, calcium dihydroxide is stable.

10.3. Possibility of hazardous reactions

- Calcium dihydroxide reacts exothermically with acids. When heated above 580 °C, calcium dihydroxide decomposes to produce calcium oxide (CaO) and water (H₂O): $\text{Ca(OH)}_2 \rightarrow \text{CaO} + \text{H}_2\text{O}$. Calcium oxide reacts with water and generates heat. This may cause risk to flammable material.

10.4. Conditions to avoid.

- Minimise exposure to air and moisture to avoid degradation.

10.5. Incompatible materials

- Calcium dihydroxide 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.
- $\text{Ca(OH)}_2 + 2 \text{Al} + 6 \text{H}_2\text{O} \rightarrow \text{Ca[Al(OH)}_4\text{]}_2 + 3 \text{H}_2$

10.6. Hazardous decomposition products

- None.
- Further information: Calcium dihydroxide reacts with carbon dioxide to form calcium carbonate, which is a common material in nature.

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11. TOXICOLOGICAL INFORMATION

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

<p>a, Acute toxicity</p>	<ul style="list-style-type: none"> • Oral: LD₅₀ > 2000 mg/kg bw (OECD 425, rat) • Dermal: LD₅₀ > 2500 mg/kg bw (OECD 402, rabbit) • Inhalation: no data available • Calcium dihydroxide is not acutely toxic.
<p>b, Skin corrosion/irritation</p>	<ul style="list-style-type: none"> • Calcium dihydroxide is irritating to skin (in vivo, rabbit). • Calcium dihydroxide is not corrosive to skin (in vitro)
<p>c, Serious eye damage/irritation</p>	<ul style="list-style-type: none"> • Calcium dihydroxide entails a risk of serious damage to the eye (in vivo, rabbit).
<p>d, Respiratory or skin sensitisation</p>	<ul style="list-style-type: none"> • No data available. • Calcium dihydroxide 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.
<p>e, Germ cell mutagenicity</p>	<ul style="list-style-type: none"> • Calcium dihydroxide is not genotoxic (in vitro). • 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, lime is obviously void of any genotoxic potential.
<p>f, Carcinogenicity</p>	<ul style="list-style-type: none"> • Calcium (administered as Ca-lactate) is not carcinogenic (experimental result, rat). • The pH effect of calcium dihydroxide does not give rise to a carcinogenic risk. • Human epidemiological data support lack of any carcinogenic potential of calcium dihydroxide.
<p>g, Reproductive toxicity</p>	<ul style="list-style-type: none"> • 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 dihydroxide is not toxic for reproduction and/or development.
<p>h, STOT-single exposure</p>	<ul style="list-style-type: none"> • From human data it is concluded that Ca(OH)₂ is irritating to the respiratory tract. • As summarised and evaluated in the SCOEL recommendation (Anonymous, 2008), based on human data, calcium dihydroxide irritating to the respiratory system.

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<p>i, STOT-repeated exposure</p>	<ul style="list-style-type: none"> • 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 Ca(OH)₂ 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 Ca(OH)₂ 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/m³ respirable dust (see Section 8.1).
<p>j, Aspiration hazard</p>	<ul style="list-style-type: none"> • Calcium hydroxide is not known to present an aspiration hazard.

11.2 Information about other hazards

11.2.1 Endokrin károsító anyagok: Nem derült fény endokrin rendszert károsító hatásra

11.2.2 Egyéb információ: Nem derült fény egyéb ártalmas hatásra

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2 ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute/Prolonged toxicity to fish	<ul style="list-style-type: none"> • LC₅₀ (96h) for freshwater fish: 50.6 mg/l • LC₅₀ (96h) for marine water fish: 457 mg/l
12.1.2. Acute/Prolonged toxicity to aquatic invertebrates	<ul style="list-style-type: none"> • EC₅₀ (48h) for freshwater invertebrates: 49.1 mg/l • LC₅₀ (96h) for marine water invertebrates: 158 mg/l
12.1.3. Acute/Prolonged toxicity to aquatic plants	<ul style="list-style-type: none"> • EC₅₀ (72h) for freshwater algae: 184.57 mg/l • NOEC (72h) for freshwater algae: 48 mg/l
12.1.4. Toxicity to micro-organisms e.g. bacteria	<ul style="list-style-type: none"> • At high concentration, through the rise of temperature and pH, calcium dihydroxide is used for disinfection of sewage sludges.
12.1.5. Chronic toxicity to aquatic organisms	<ul style="list-style-type: none"> • NOEC (14d) for marine water invertebrates: 32 mg/l
12.1.6. Toxicity to soil dwelling organisms	<ul style="list-style-type: none"> • EC₁₀/LC₁₀ or NOEC for soil macroorganisms: 2000 mg/kg soil dw • EC₁₀/LC₁₀ or NOEC for soil microorganisms: 12000 mg/kg soil dw
12.1.7. Toxicity to terrestrial plants	<ul style="list-style-type: none"> • NOEC (21d) for terrestrial plants: 1080 mg/kg
12.1.8. General effect	<ul style="list-style-type: none"> • 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.

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12.2. Persistence and degradability

- Not relevant for inorganic substances

12.3. Bio accumulative potential

- Not relevant for inorganic substances

12.4. Mobility in soil

- Calcium dihydroxide, which is sparingly soluble, presents a low mobility in most soils.

12.5. Results of PBT and vPvB assessment

- Not relevant for inorganic substances

12.6. Effects that damage the endocrine system

- No effects on the endocrine system were found.

12.7. Other adverse effects

- No other adverse effects are identified.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Disposal of calcium dihydroxide 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.

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14. TRANSPORT INFORMATION

14.1. UN-Number

- Not regulated

14.2. UN proper shipping name

- Not regulated

14.3. Transport hazard class(es)

- Calcium dihydroxide is not classified as hazardous for transport [ADR (road), RID (rail), ICAO/IATA (air), ADN (inland waterways) and IMDG (sea)].

14.4. Packing group

- Not regulated

14.5. Environmental hazards

- None

14.6. Special precautions for user

- Avoid any release of dust during transportation, by using air-tight tanks

14.7. Bulk sea transportation according to IMO rules

- Not regulated

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15. REGULATORY INFORMATION

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

- Other EU regulations: Calcium dihydroxide is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
- National regulations: Water endangering class 1 (Germany)

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. Revision

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.

- 1.1 Product identifier
- 1.2 Relevant identified uses of the substance and uses advised against
- 1.3 Details of the supplier of the Safety Data Sheet
- 1.4 Emergency phone number
- 2.1 Classification of the substance
- 3.1 Substance
- 4.1 Description of first aid measures
- 8.1 Control parameters
- 9.1 Information on basic physical and chemical properties
- 11.1 Information on toxicological effects
- 14.3 Transport hazard class(es)
- 15.1 Safety, health and environmental regulations/legislation specific for the substance
- 16 Other information.

16.2. Abbreviations

- EC₅₀: median effective concentration
- LC₅₀: median lethal concentration
- LD₅₀: median lethal dose
- NOEC: no observable effect concentration
- OEL: occupational exposure limit
- PBT: persistent, bio accumulative, toxic chemical
- PNEC: predicted no-effect concentration
- STEL: short-term exposure limit
- TWA: time weighted average
- vPvB: very persistent, very bio accumulative chemical

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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)₂), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

16.4. Relevant P-phrases and/or H-statements**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

DISCLAIMER

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EU) 1907/2006 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.

ANNEX

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 the Safety Data Sheet