

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Calcium hydroxide

Creation date	01st June 2021	Version	1.2
Revision date	04th September 2023		

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

1.1. Product identifier

Substance / mixture	Calcium hydroxide substance
Chemical name	calcium-dihydroxide
CAS number	1305-62-0
EC (EINECS) number	215-137-3
Registration number	01-2119475151-45-0000

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

Substance's intended use

Medicinal products. Parenteral applications. Food additive. Ingredient for cosmetics.

The use descriptors

SU 1	Agriculture, forestry, fishery
SU 2a	Mining (except offshore industries)
SU 2b	Offshore industries
SU 4	Manufacture of food products
SU 5	Manufacture of textiles, leather, fur
SU 6a	Manufacture of wood and wood products
SU 6b	Manufacture of pulp, paper and paper products
SU 7	Printing and reproduction of recorded media
SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9	Manufacture of fine chemicals
SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU 11	Manufacture of rubber products
SU 12	Manufacture of plastics, including compounding and conversion
SU 13	Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 14	Manufacture of basic metals, including alloys
SU 15	Manufacture of fabricated metal products, except machinery and equipment
SU 16	Manufacture of computer, electronic and optical products, electrical equipment
SU 17	General manufacture, e.g. machinery, equipment, vehicles, other transport equipment
SU 18	Manufacture of furniture
SU 19	Building and construction work
SU 20	Health services
SU 23	Electricity, steam, gas water supply and sewage treatment
SU 24	Scientific research and development
PC 1	Adhesives, sealants
PC 2	Adsorbents
PC 3	Air care products
PC 7	Base metals and alloys
PC 9a	Coatings and paints, thinners, paint removers
PC 9b	Fillers, putties, plasters, modelling clay
PC 11	Explosives
PC 12	Fertilizers
PC 13	Fuels
PC 14	Metal surface treatment products
PC 15	Non-metal-surface treatment products
PC 16	Heat transfer fluids
PC 17	Hydraulic fluids
PC 18	Ink and toners
PC 20	Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
PC 21	Laboratory chemicals
PC 23	Leather treatment products
PC 24	Lubricants, greases, release products
PC 25	Metal working fluids
PC 26	Paper and board treatment products

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PC 27	Plant protection products
PC 28	Perfumes, fragrances
PC 29	Pharmaceuticals
PC 30	Photo-chemicals
PC 31	Polishes and wax blends
PC 32	Polymer preparations and compounds
PC 33	Semiconductors
PC 34	Textile dyes, and impregnating products
PC 35	Washing and cleaning products
PC 36	Water softeners
PC 37	Water treatment chemicals
PC 38	Welding and soldering products, flux products
PC 39	Cosmetics, personal care products
PC 40	Extraction agents
PROC 1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC 2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC 3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC 4	Chemical production where opportunity for exposure arises
PROC 5	Mixing or blending in batch processes
PROC 6	Calendering operations
PROC 7	Industrial spraying
PROC 8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 9	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 10	Roller application or brushing
PROC 12	Use of blowing agents in manufacture of foam
PROC 13	Treatment of articles by dipping and pouring
PROC 14	Tabletting, compression, extrusion, pelletisation, granulation
PROC 15	Use as laboratory reagent
PROC 16	Use of fuels
PROC 17	Lubrication at high energy conditions in metal working operations
PROC 18	General greasing/lubrication at high kinetic energy conditions
PROC 19	Manual activities involving hand contact
PROC 21	Low energy manipulation and handling of substances bound in/on materials or articles
PROC 22	Manufacturing and processing of minerals and/or metals at substantially elevated temperature
PROC 23	Open processing and transfer operations at substantially elevated temperature
PROC 24	High (mechanical) energy work-up of substances bound in/on materials and/or articles
PROC 25	Other hot work operations with metals
PROC 26	Handling of solid inorganic substances at ambient temperature
PROC 27a	Production of metal powders (hot processes)
PROC 27b	Production of metal powders (wet processes)
ERC 1	Manufacture of substances
ERC 2	Formulation into mixture
ERC 3	Formulation into solid matrix
ERC 4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC 5	Use at industrial site leading to inclusion into/onto article
ERC 6a	Use of intermediate
ERC 6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)

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ERC 6c	Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC 6d	Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC 7	Use of functional fluid at industrial site
ERC 8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC 8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC 8c	Widespread use leading to inclusion into/onto article (indoor)
ERC 8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC 8e	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
ERC 8f	Widespread use leading to inclusion into/onto article (outdoor)
ERC 9a	Widespread use of functional fluid (indoor)
ERC 9b	Widespread use of functional fluid (outdoor)
ERC 10a	Widespread use of articles with low release (outdoor)
ERC 10b	Widespread use of articles with high or intended release (outdoor)
ERC 11a	Widespread use of articles with low release (indoor)
ERC 11b	Widespread use of articles with high or intended release (indoor)
ERC 12a	Processing of articles at industrial sites with low release
ERC 12b	Processing of articles at industrial sites with high release
AC 1a	Vehicles covered by End of Life Vehicles (ELV) directive
AC 1b	Other vehicles
AC 2a	Machinery, mechanical appliances, electrical/electronic articles covered by the Waste Electrical and Electronic Equipment (WEEE) directive
AC 2b	Other machinery, mechanical appliances, electrical/electronic articles
AC 3	Electrical batteries and accumulators
AC 4a	Stone, plaster, cement, glass and ceramic articles: Large surface area articles
AC 4b	Stone, plaster, cement, glass and ceramic articles: Toys intended for children's use (and child dedicated articles)
AC 4c	Stone, plaster, cement, glass and ceramic articles: Packaging (excluding food packaging)
AC 4d	Stone, plaster, cement, glass and ceramic articles: Articles intended for food contact
AC 4e	Stone, plaster, cement, glass and ceramic articles: Furniture & furnishings
AC 4f	Stone, plaster, cement, glass and ceramic articles: Articles with intense direct dermal contact during normal use
AC 4g	Other articles made of stone, plaster, cement, glass or ceramic
AC 5a	Fabrics, textiles and apparel: Large surface area articles
AC 5b	Fabrics, textiles and apparel: Toys intended for children's use (and child dedicated articles)
AC 5c	Fabrics, textiles and apparel: Packaging (excluding food packaging)
AC 5d	Fabrics, textiles and apparel: Articles intended for food contact
AC 5e	Fabrics, textiles and apparel: Furniture & furnishings, including furniture coverings
AC 5f	Fabrics, textiles and apparel: Articles with intense direct dermal contact during normal use
AC 5g	Fabrics, textiles and apparel: Articles with intense direct dermal contact during normal use: bedding and mattresses
AC 5h	Other articles made of fabrics, textiles and apparel
AC 6a	Leather articles: Large surface area articles
AC 6b	Leather articles: Toys intended for children's use (and child dedicated articles)
AC 6c	Leather articles: Packaging (excluding food packaging)
AC 6d	Leather articles: Articles intended for food contact
AC 6e	Leather articles: Furniture & furnishings, including furniture coverings
AC 6f	Leather articles: Articles with intense direct dermal contact during normal use
AC 6g	Other leather articles
AC 7a	Metal articles: Large surface area articles

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AC 7b	Metal articles: Toys intended for children's use (and child dedicated articles)
AC 7c	Metal articles: Packaging (excluding food packaging)
AC 7d	Metal articles: Articles intended for food contact
AC 7e	Metal articles: Furniture & furnishings
AC 7f	Metal articles: Articles with intense direct dermal contact during normal use
AC 7g	Other metal articles
AC 8a	Paper articles: Large surface area articles
AC 8b	Paper articles: Toys intended for children's use (and child dedicated articles)
AC 8c	Paper articles: Packaging (excluding food packaging)
AC 8d	Paper articles: Articles intended for food contact
AC 8e	Paper articles: Furniture & furnishings
AC 8f1	Paper articles: Articles with intense direct dermal contact during normal use: personal hygiene articles
AC 8f2	Paper articles: Articles with intense direct dermal contact during normal use: printed articles with dermal contact in normal conditions of use
AC 8g	Other paper articles
AC 10a	Rubber articles: Large surface area articles
AC 10b	Rubber articles: Toys intended for children's use (and child dedicated articles)
AC 10c	Rubber articles: Packaging (excluding food packaging)
AC 10d	Rubber articles: Articles intended for food contact
AC 10e	Rubber articles: Furniture & furnishings, including furniture coverings
AC 10f	Rubber articles: Articles with intense direct dermal contact during normal use
AC 10g	Other rubber articles
AC 11a	Wood articles: Large surface area articles
AC 11b	Wood articles: Toys intended for children's use (and child dedicated articles)
AC 11c	Wood articles: Packaging (excluding food packaging)
AC 11d	Wood articles: Articles intended for food contact
AC 11e	Wood articles: Furniture & furnishings
AC 11f	Wood articles: Articles with intense direct dermal contact during normal use
AC 11g	Other wood articles
AC 13a	Plastic articles: Large surface area articles
AC 13b	Plastic articles: Toys intended for children's use (and child dedicated articles)
AC 13c	Plastic articles: Packaging (excluding food packaging)
AC 13d	Plastic articles: Articles intended for food contact
AC 13e	Plastic articles: Furniture & furnishings, including furniture coverings
AC 13f	Plastic articles: Articles with intense direct dermal contact during normal use
AC 13g	Other plastic articles
M	Manufacture

Substance uses advised against

Biocidal products.

1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name	Macco Organiques, s.r.o.
Address	Zahradní 1938/46c, Bruntál 1, 792 01 Czech Republic
Identification number (CRN)	26819210
VAT Reg No	CZ26819210
Phone	+420 555 530 300
E-mail	macco@macco.cz

Competent person responsible for the safety data sheet

Name	Petr Ševčík
E-mail	petr.sevcik@macco.cz

1.4. Emergency telephone number

European emergency number: 112

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Skin Corr. 1, H314
Eye Dam. 1, H318
STOT SE 3, H335
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Dangerous substance

calcium-dihydroxide
(EC: 215-137-3; CAS: 1305-62-0)

Hazard statements

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear eye protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 doctor.

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1305-62-0 EC: 215-137-3 Registration number: 01-2119475151-45-0000	substance main component calcium-dihydroxide	100	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	1

Notes

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

If in eyes

Do not rub your eyes - it could lead to mechanical damage of the cornea. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling dust can cause corrosion of the breathing system. May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

When heated above 580°C, calcium hydroxide decomposes to produce calcium oxide and water steam. Calcium oxide reacts with water and generates heat.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Provide sufficient ventilation. Avoid dust formation. Do not inhale dust. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of dust in concentrations exceeding the occupational exposure limits. Do not inhale dust. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union

Commission Directive (EU) 2017/164

Substance name (component)	Type	Value	Note
calcium-dihydroxide (CAS: 1305-62-0)	OEL 8 hours	1 mg/m ³	Respirable fraction.
	OEL 15 minutes	4 mg/m ³	

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DNEL

Calcium hydroxide					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	4 mg/m ³	Acute effects local		
Consumers	Inhalation	1 mg/m ³	Chronic effects local		
Workers	Inhalation	4 mg/m ³	Acute effects local		
Workers	Inhalation	1 mg/m ³	Chronic effects local		

PNEC

Calcium hydroxide			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.49 mg/l		
Soil (agricultural)	1080 mg/kg of dry substance of soil		
Marine water	0.32 mg/l		
Microorganisms in sewage treatment	3 mg/l		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Provide showers and eye wash possibility.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed). EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. EN ISO 374-1. Other protection: protective workwear. Contaminated skin should be washed thoroughly. Use barrier creams for skin protection, they should, however, not be applied once exposure has occurred.

Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white, orange
color intensity	light
Odour	Slight earthy odour.
Melting point/freezing point	>450 °C
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flammability	non-flammable
Lower and upper explosion limit	not applicable
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	580 °C

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pH 12.4 (0.16% solution at 20 °C)
Kinematic viscosity not applicable
Solubility in water 0.160 g / 100g 20°C
Solubility Ethanol insoluble
Partition coefficient n-octanol/water (log value) not applicable
Vapour pressure not applicable
Density and/or relative density
Density 2.240 g/cm³ at 20 °C
Relative vapour density not applicable
Particle characteristics data not available
Form solid, powder

9.2. Other information

Oxidising properties It is not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Humid air. It absorbs CO₂ from air.

10.5. Incompatible materials

Aluminium. Brass. In contact with water releases flammable gases. Acids.

10.6. Hazardous decomposition products

Not developed under normal uses. Reaction with metals may release hydrogen.

SECTION 11: Toxicological information

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

No toxicological data is available for the substance. Inhalation of dust above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

Acute toxicity

Based on available data the classification criteria are not met.

calcium-dihydroxide						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 425	>2000 mg/kg		Rat	
Dermal	LD ₅₀	OECD 402	>2500 mg/kg		Rabbit	
Inhalation	LC ₅₀		6.04 mg/l of air	4 hours	Rat	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

calcium-dihydroxide			
Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

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Serious eye damage/irritation

Causes serious eye damage. Causes severe skin burns and eye damage.

calcium-dihydroxide			
Route of exposure	Result	Exposure time	Species
	Serious eye damage		Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

calcium-dihydroxide					
Route of exposure	Result	Method	Exposure time	Species	Sex
	Not sensitizing	OECD 471			

Germ cell mutagenicity

Based on available data the classification criteria are not met.

calcium-dihydroxide					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471				
Negative	OECD 473				
Negative	OECD 476				

Carcinogenicity

Based on available data the classification criteria are not met.

calcium-dihydroxide					
Route of exposure	Parameter	Value	Result	Species	Sex
			Negative	Rat	

Reproductive toxicity

Based on available data the classification criteria are not met.

calcium-dihydroxide					
Effect	Parameter	Value	Result	Species	Sex
			Negative	Rat	

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

calcium-dihydroxide						
Route of exposure	Parameter	Value	Specific target organ	Result	Species	Sex
Inhalation			Nasal mucosa	Irritating		

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

calcium-dihydroxide					
Route of exposure	Parameter	Value	Result	Species	Sex
Oral		36 mg/kg bw/day			
Dermal			Negative		

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Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

11.2. Information on other hazards

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

calcium-dihydroxide					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		50.6 mg/l	96 hours	Fish	Fresh water
LC ₅₀		457 mg/l	96 hours	Fish	Salt water
EC ₅₀		49.1 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water
NOEC	OECD 202	33.3 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water
LC ₅₀		158 mg/l	96 hours	Daphnia (Daphnia magna)	Salt water
EC ₅₀		184.57 mg/l	72 hours	Algae	Fresh water
NOEC		48 mg/l	72 hours	Algae	Salt water
NOEC		12000 mg/kg of dry substance		Microorganisms	
NOEC		1080 mg/kg	21 days	Higher plants	Fresh water

12.2. Persistence and degradability

No data available for the substance.

12.3. Bioaccumulative potential

No data available for the substance.

12.4. Mobility in soil

The following data are available.

calcium-dihydroxide				
Parameter	Value	Environment	Temperature	Result
				Low

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

06 02 01 calcium hydroxide *

Packaging waste type code

06 02 00 wastes from the MFSU of bases

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Not available.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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P280	Wear eye protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 doctor.

Other important information about human health protection

The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

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not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 1.2 replaces the SDS version from 14.07.2022. Changes were made to section 1 and 15.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.