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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 21.03.2018 / 0004
 Replacing version dated / version: 21.07.2017 / 0003
 Valid from: 21.03.2018
 PDF print date: 10.04.2018
 SCHAEFER PRECAfood® - Ca(OH)₂ Calciumdihydroxid

Safety data sheet
according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

SCHAEFER PRECAfood® - Ca(OH)₂ Calciumdihydroxid
 Calcium dihydroxide
 Registration number (ECHA): 01-2119475151-45-XXXX
 Index: ---
 EINECS, ELINCS, NLP: 215-137-3
 CAS: 1305-62-0

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

Sector of use [SU]:

- SU 1 - Agriculture, forestry, fishery
- SU 2a - Mining, (without offshore industries)
- SU 2b - Offshore industries
- SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
- 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
- SU10 - Formulation (mixing) of preparations and/or re-packaging (excluding alloys)
- SU11 - Manufacture of rubber products
- SU12 - Manufacture of plastics products, including compounding and conversion
- SU13 - Manufacture of other non-metallic mineral products, e.g. plasters, cement
- SU14 - Manufacture of basic metals, including alloys
- SU15 - Manufacture of fabricated metal products, except machinery and equipment
- SU16 - Manufacture of computer, electronic and optical products, electrical equipment
- SU17 - General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.
- SU18 - Manufacture of furniture
- SU19 - Building and construction work
- SU20 - Health services
- SU21 - Consumer uses: Private households (=general public = consumers)
- SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU23 - Electricity, steam, gas water supply and sewage treatment
- SU24 - Scientific research and development

Chemical product category [PC]:

- PC 1 - Adhesives, sealants
- PC 2 - Adsorbents
- PC 3 - Air care products
- PC 7 - Base metals and alloys
- PC 8 - Biocidal products
- PC 9a - Coatings and paints, thinners, paint removers
- PC 9b - Fillers, putties, plasters, modelling clay
- PC11 - Explosives
- PC12 - Fertilizers
- PC13 - Fuels
- PC14 - Metal surface treatment products
- PC15 - Non-metal-surface treatment products
- PC16 - Heat transfer fluids
- PC17 - Hydraulic fluids
- PC18 - Ink and toners
- PC19 - Removed from PC list and relocated in the technical function list
- PC20 - Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
- PC21 - Laboratory chemicals
- PC23 - Leather treatment products
- PC24 - Lubricants, greases, release products
- PC25 - Metal working fluids
- PC26 - Paper and board treatment products
- PC27 - Plant protection products
- PC28 - Perfumes, fragrances
- PC29 - Pharmaceuticals
- PC30 - Photo-chemicals
- PC31 - Polishes and wax blends
- PC32 - Polymer preparations and compounds
- PC33 - Semiconductors
- PC34 - Textile dyes, and impregnating products
- PC35 - Washing and cleaning products
- PC36 - Water softeners
- PC37 - Water treatment chemicals
- PC38 - Welding and soldering products, flux products
- PC39 - Cosmetics, personal care products
- PC40 - Extraction agents

Process category [PROC]:

- 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

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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 - Calendaring 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 into small containers (dedicated filling line, including weighing)
 PROC10 - Roller application or brushing
 PROC12 - Use of blowing agents in manufacture of foam
 PROC13 - Treatment of articles by dipping and pouring
 PROC14 - Tableting, compression, extrusion, pelletisation, granulation
 PROC15 - Use a laboratory reagent.
 PROC16 - Use of fuels
 PROC17 - Lubrication at high energy conditions in metal working operation
 PROC18 - General greasing/lubrication at high kinetic energy conditions
 PROC19 - Manual activities involving hand contact
 PROC21 - Low energy manipulation and handling of substances bound in/on materials or articles
 PROC22 - Manufacturing and processing of minerals and/or metals at substantially elevated temperature
 PROC23 - Open processing and transfer operations at substantially elevated temperature
 PROC24 - High (mechanical) energy work-up of substances bound in /on materials and/or articles
 PROC25 - Other hot work operations with metals
 PROC26 - Handling of solid inorganic substances at ambient temperature
 PROC27a - Production of metal powders (hot processes)
 PROC27b - Production of metal powders (wet processes)
 Article Categories [AC]:
 AC 1 - Vehicles
 AC 2 - Machinery, mechanical appliances, electrical/electronic articles
 AC 3 - Electrical batteries and accumulators
 AC 4 - Stone, plaster, cement, glass and ceramic articles
 AC 5 - Fabrics, textiles and apparel
 AC 6 - Leather articles
 AC 7 - Metal articles
 AC 8 - Paper articles
 AC10 - Rubber articles
 AC11 - Wood articles
 AC13 - Plastic articles
 Environmental Release Category [ERC]:
 ERC 1 - Manufacture of the substance
 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)
 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)
 ERC10a - Widespread use of articles with low release (outdoor)
 ERC10b - Widespread use of articles with high or intended release (outdoor)
 ERC11a - Widespread use of articles with low release (indoor)
 ERC11b - Widespread use of articles with high or intended release (indoor)
 ERC12a - Processing of articles at industrial sites with low release
 ERC12b - Processing of articles at industrial sites with high release
Uses advised against:
 No information available at present.

1.3 Details of the supplier of the safety data sheet

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SCHAEFER KALK GmbH & Co. KG, Louise-Seher-Strasse 6, 65582 Diez, Germany
 Phone:+49-6432-503-0, Fax:+49-6432-503-269
 info@schaeferkalk.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (SKC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

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Hazard class	Hazard category	Hazard statement
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Eye Dam.	1	H318-Causes serious eye damage.

2.2 Label elements
Labeling according to Regulation (EC) 1272/2008 (CLP)



Calcium dihydroxide
 CAS: 1305-62-0, Index:--- EC: 215-137-3

Danger

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

P102-Keep out of reach of children.
 P261-Avoid breathing dust. P280-Wear protective gloves / protective clothing and eye protection / face protection.
 P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 all local, regional, national and international laws.

2.3 Other hazards

No vPvB substance
 No PBT substance
 Reacts with water with creation of a lye.
 In contact to the powder itself, the product, when diluted with water, can produce severe skin damage in humans, (alkaline burns), especially if prolonged skin contacts takes place.
 Irritant effect on skin and mucous membranes.

SECTION 3: Composition/information on ingredients

This is a substance with minor constituents of geological origin.

3.1 Substance

Calcium dihydroxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475151-45-XXXX
Index	---
EINECS, ELINCS, NLP	215-137-3
CAS	1305-62-0
content %	
Classification according to Regulation (EC) 1272/2008 (CLP)	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318

3.2 Mixture

n.a.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
 The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

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

Skin contact

Carefully and gently brush the contaminated body surfaces in order to remove all traces of product.
 Wash affected area immediately with plenty of water for 15 to 20 minutes. Take off contaminated clothing.

Eye contact

rinse with Previn(r) rinsing solution for at least 3 minutes, rinse with at least one litre respectively (OH⁻ ions are bound and inactivated - adsorption).
 Consult medical specialist.

Ingestion

Wash mouth with water and drink copious quantities of water. Do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

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If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Eye-rinse bottle
 No known delayed effects. Consult a physician for all exposures except for minor instances.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The substance is not flammable, and non-combustible, it inhibits the spread of flame.
 Adapt to the nature and extent of fire.

Exinction powder
 Foam
 CO₂

Unsuitable extinguishing media

n.a.

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
 When heated above 580°C, calcium hydroxide decomposes to produce calcium oxide (CaO) and water (H₂O).
 Calcium oxide reacts with water an generates heat.
 This may cause risk to flammable material.

5.3 Advice for firefighters

Protective respirator with independent air supply.
 Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin an eyes.
 Avoid creating dust, ensure adequate ventilation or adequate respiratory protection (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 rising).
 Inform the competent authorities when water or canalisation has been infiltrated.

6.3 Methods and material for containment and cleaning up

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 personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid contact with skin an eyes.
 Wear protective equipment (see section8).
 Keep dust levels to a minimum. Minimise dust generation. Enclose dust sources.
 If applicable, suction measures at the workstation or on the processing machine necessary.
 Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Store in a dry place.
 Minimise contact with air and moisture. Bulk storage should be in purpose - designed silos.
 Keep away from acids, significant quantities of paper, straw, and nitro compounds.
 Keep out of the reach of children.
 Do not use aluminium for transport or storage if there is a risk of contact with water.
 Ensure sufficient ventilation.
 Avoid build up of dust.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Calcium dihydroxide	Content %:
WEL-TWA: 5 mg/m ³ (WEL-TWA), 1 mg/m ³ (9) (EU)	WEL-STEL: 4 mg/m ³ (9) (EU)	---
Monitoring procedures:	<ul style="list-style-type: none"> - ISO 15202 (Determination of metals and metalloids in airborne particulate matter by inductive coupled plasma emission spectrometry) - 2000(Part 1), 2001(Part 2), 2004 (Part 3) - DFG (E), DFG (D) (Alkali metal hydroxides and alkali earth hydroxides) - 2001, 1998 - EU project - BC/CEN/ENTR/000/2002-16 card 42-2 (2004) - OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres) - 2002 - EU project - BC/CEN/ENTR/000/2002-16 card 42-4 (2004) 	

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BMGV: ---	Other information: ---
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(G) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

Calcium dihydroxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,49	mg/l	
	Environment - soil		PNEC	1080	mg/kg dw	
	Environment - marine		PNEC	0,32	mg/l	
	Environment - sewage treatment plant		PNEC	3	mg/l	
Consumer	Human - inhalation	Short term, local effects	DNEL	4	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	4	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. BS EN 14042.
 BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".
 Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below the OES.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).
 Face protection (EN 166)
 Do not wear contact lenses when handling this product.

Skin protection - Hand protection:
 Nitrile-soaked cotton gloves with CE sign EN 374)
 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).
 Clothing fully covering skin.
 Full length pants, long sleeved overalls, with close fittings at openings.
 Wear acid-proof, resp. alkali-resistant and dust-tight shoes.
 If heavily exposed daily, employees must shower, and if necessary use a barrier cream to protect exposed skin, particularly neck, face and wrists.

Respiratory protection:
 Wear approved respiratory protection mask to EN 149 Category FFP2 (colour code white) or Airstream helmet for high exposure levels.
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

8.2.3 Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid, powder
Colour:	White
Colour:	Beige

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Odour:	Slight earthy odour.
Odour threshold:	Not applicable
pH-value:	12,4 (20°C, saturated solution)
Melting point/freezing point:	>450 °C (Regulation (EC) 440/2008 A.1. (MELTING/FREEZING TEMPERATURE))
Initial boiling point and boiling range:	Not applicable
Flash point:	n.a.
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not flammable (Regulation (EC) 440/2008 A.10. (FLAMMABILITY (SOLIDS)))
Lower explosive limit:	n.a.
Upper explosive limit:	n.a.
Vapour pressure:	Not applicable
Vapour density (air = 1):	Not determined
Density:	2,24 (Regulation (EC) 440/2008 A.3. (RELATIVE DENSITY), relative density)
Bulk density:	300-500 kg/m ³ (20°C, Not determined)
Solubility(ies):	Soluble in ammonium salts, acids and glycerine.
Solubility(ies):	Insoluble in alcohol.
Water solubility:	1844,9 mg/l (Regulation (EC) 440/2008 A.6. (WATER SOLUBILITY))
Partition coefficient (n-octanol/water):	n.a.
Auto-ignition temperature:	Not determined
Decomposition temperature:	>580 °C (When heated above 580°C, calcium hydroxide decomposes to produce calcium oxide (CaO) and water (H ₂ O).)
Viscosity:	n.a.
Explosive properties:	Not determined
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

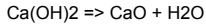
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

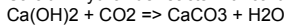
Minimise exposure to air and moisture to avoid degradation.

When heated above 580°C, calcium hydroxide decomposes to produce calcium oxide (CaO) and water (H₂O).



10.5 Incompatible materials

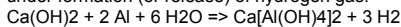
Calcium hydroxide reacts with carbon dioxide to form Calcium carbonate:



Calcium hydroxide reacts with acids to form Calcium salts.

Calcium hydroxide reacts with aluminium and brass in the presence of moisture

under formation (or release) of hydrogen gas:



10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Calcium dihydroxide

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:					OECD 431 (In Vitro Skin Corrosion - Human Skin Model Test)	Non-caustic
Skin corrosion/irritation:				Rabbit		Irritant, in vivo
Serious eye damage/irritation:				Rabbit		Risk of serious damage to eyes., in vivo
Respiratory or skin sensitisation:						Not to be expected
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Rat		Negative, administered as Ca-lactate

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Reproductive toxicity:				Mouse		Negative, administered as Ca-carbonate
Specific target organ toxicity - single exposure (STOT-SE):						Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE):		36	mg/kg bw/d			oral (UL by SCF)
Specific target organ toxicity - repeated exposure (STOT-RE):						Negative, dermal
Aspiration hazard:						No
Symptoms:						breathing difficulties, abdominal pain, drowsiness, thirst, fever, sore throat, cornea opacity, coughing, headaches, mucous membrane irritation, fatigue

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Calcium dihydroxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	50,6	mg/l			freshwater
12.1. Toxicity to fish:	LC50	96h	457	mg/l			marine water
12.1. Toxicity to daphnia:	EC50	48h	49,1	mg/l			freshwater
12.1. Toxicity to daphnia:	NOEC/NOEL	14d	32	mg/l			marine water
12.1. Toxicity to daphnia:	LC50	96h	158	mg/l			marine water
12.1. Toxicity to algae:	EC50	72h	184,57	mg/l			freshwater
12.1. Toxicity to algae:	NOEC/NOEL	72h	48	mg/l			freshwater
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative 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. Other adverse effects:							pH-value of > 12 will rapidly decrease as result of dilution and carbonation., Even though this product can be used to neutralise over-acidified water, when 1g/l is exceeded organisms in the water may be affected adversely.
Toxicity to bacteria:							In high concentrations the product provokes an increase in temperature and of the pH-value. It is used to sanitise sewage sludge
Other organisms:	NOEC/NOEL		2000	mg/kg dw			soil macroorganisms
Other organisms:	NOEC/NOEL		12000	mg/kg dw			soil microorganisms
Other organisms:	NOEC/NOEL	21d	1080	mg/kg			terrestrial plants

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

10 13 04 wastes from calcination and hydration of lime

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Protect from humidity.

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For contaminated packing material

Pay attention to local and national official regulations.
 Uncontaminated packaging can be recycled.

SECTION 14: Transport information

General statements

14.1. UN number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a.
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.
 Avoid any release of dust during transportation, by using tight tanks for powders.

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with trade association/occupational health regulations.

15.2 Chemical safety assessment

A chemical safety assessment was carried out for the following substance(s):
 Calcium dihydroxid

SECTION 16: Other information

Revised sections: 8, 11, 12

Link exposure scenarios (Annex as a separate document):

https://sichdatonline.chemical-check.de/Dokumente/714/EX/56273_0004_21-03-2018_EN_EX.pdf

Registration/listing status:

EU:	
ECOCAS:	1305-62-0
EINECS No.:	215-137-3
JAPAN:	
ENCS No.:	1-181
ISHL:	
KOREA:	
ECL Serial No.:	KE-04518
SWITZERLAND:	
Swiss No.:	G-1012
USA:	
TSCA, FIFRA, DOT, FDA, NIOSH, OSHA, ACGIH, STATE	
CANADA:	
DSL, WHMIS	
AUSTRALIA:	
AICS	
NEW ZEALAND:	
NZIoC	
PHILIPPINES:	
PICCS	
TAIWAN:	
TCSI	
CHINA:	
IECSC	
MEXICO:	
INSQ	

References

90/269/EWG
 Booklet L64 - Safety Signs and Signals. The Health and Safety (Safety Signs and Signals) Regulation 1996 -
 Guidance on Regulations (HSE) - ISBN 0 7176 0870 0
 IUCLID Dataset 2000

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Merck Index (Ed. Merck & Co, Rahway, USA)
 Anonymous, 2006:
 Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food,
 European Food Safety Authority, ISBN: 92-9199-014-0 [SFC document]
 Anonymous, 2008:
 Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxid (Ca(OH)₂), European Commission,
 DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM 137 February 2008

These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.
 The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
 Skin Irrit. — Skin irritation
 Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

AC	Article Categories
acc., acc. to	according, according to
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL	Acceptable Operator Exposure Level
AOX	Adsorbable organic halogen compounds
approx.	approximately
Art., Art. no.	Article number
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF	Bioconcentration factor
BGV	Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
BHT	Butylhydroxytoluol (= 2,6-Di- <i>t</i> -butyl-4-methyl-phenol)
BMGV	Biological monitoring guidance value (EH40, UK)
BOD	Biochemical oxygen demand
BSEF	Bromine Science and Environmental Forum
bw	body weight
CAS	Chemical Abstracts Service
CEC	Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
CESIO	Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
CIPAC	Collaborative International Pesticides Analytical Council
CLP	Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR	carcinogenic, mutagenic, reproductive toxic
COD	Chemical oxygen demand
CTFA	Cosmetic, Toiletry, and Fragrance Association
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
DOC	Dissolved organic carbon
DT50	Dwell Time - 50% reduction of start concentration
DVS	Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
dw	dry weight
e.g.	for example (abbreviation of Latin 'exempli gratia'), for instance
EC	European Community
ECHA	European Chemicals Agency
EEA	European Economic Area
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
EPA	United States Environmental Protection Agency (United States of America)
ERC	Environmental Release Categories
ES	Exposure scenario
etc.	et cetera
EU	European Union
EWG	European Waste Catalogue
Fax.	Fax number
gen.	general
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GWP	Global warming potential
HET-CAM	Hen's Egg Test - Chorionallantoic Membrane
HGWP	Halocarbon Global Warming Potential
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IBC (Code)	International Bulk Chemical (Code)
IC	Inhibitory concentration
IMDG-code	International Maritime Code for Dangerous Goods
incl.	including, inclusive
IUCLID	International Uniform Chemical Information Database
LC	lethal concentration
LC50	lethal concentration 50 percent kill

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LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute of Occupational Safety and Health (United States of America)
 NOAEC No Observed Adverse Effective Concentration
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 NOEL No Observed Effect Level
 ODP Ozone Depletion Potential
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PAH polycyclic aromatic hydrocarbon
 PBT persistent, bioaccumulative and toxic
 PC Chemical product category
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 POCP Photochemical ozone creation potential
 ppm parts per million
 PROC Process category
 PTFE Polytetrafluorethylene
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
 SADT Self-Accelerating Decomposition Temperature
 SAR Structure Activity Relationship
 SU Sector of use
 SVHC Substances of Very High Concern
 Tel. Telephone
 ThOD Theoretical oxygen demand
 TOC Total organic carbon
 TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
 VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
 VOC Volatile organic compounds
 vPvB very persistent and very bioaccumulative
 WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
 WHO World Health Organization
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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