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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 12.10.2022 / 0016

Replacing version dated / version: 04.04.2022 / 0015

Valid from: 12.10.2022 PDF print date: 19.01.2023

SCHAEFER PRECAL® - CaO Calciumoxid

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 PRECAL® - CaO Calciumoxid

Calcium oxide

Registration number (ECHA): 01-2119475325-36-XXXX

EINECS, ELINCS, NLP, REACH-IT List-No.: 215-138-9

CAS: 1305-78-8

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

Relevant identified uses of the substance or mixture:

Biocidal active substance

Sector of use ISUI:

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 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 9a - Coastings 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

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

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 - 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 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 - Tabletting, 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)

Uses advised against:

Chemical product category [PC]:

PC 8 - Biocidal products

1.3 Details of the supplier of the safety data sheet

SCHAEFER KALK GmbH & Co. KG

Louise-Seher-Strasse 6

65582 Diez

Tel.: +49-6432-503-0 Fax: +49-6432-503-269

Email: 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)

+1 872 5888271 (SKC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class Hazard category

STOT SE Skin Irrit. Eye Dam 1 Hazard statement

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

2.2 Label elements



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



Calcium oxide

CAS: 1305-78-8, Index:--- EC: 215-138-9

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 /

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

No substance with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances	
Calcium oxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475325-36-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	215-138-9
CAS	1305-78-8
content %	
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	STOT SE 3. H335

3.2 Mixtures

This is a substance with minor constituents of geological origin

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.

If applicable, consult doctor if necessary.

Eve contact

Rinse eyes with special adsorption solution such as, for example, Previn or any other suitable eye wash solution for at least 3 minutes or at least with one litre.

If not at hand, rinse with water for 10 minutes. If symptoms persist, repeat the procedure. Visit an ophthalmologist.

Ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

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



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5.1 Extinguishing media

Suitable extinguishing media

The substance is not flammable, and non-combustible, it inhibits the spread of flame.

The product reacts with water and generates heat. This may cause risk to flammable material.

The product does not burn.

Adapt to the nature and extent of fire.

Extinction powder

Foam

CO₂

Unsuitable extinguishing media

Avoid water and the humidification of the quicklime.

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

None

5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with skin an eyes.

Avoid creating dust, ensure adequate ventilation or adequate respiratory protection (see Section 8).

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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

©B Chemical Name	Calcium oxide				
WEL-TWA: 1 mg/m3 (9) (WEL, EU)	N	VEL-STEL:	4 mg/m3 (9) (WEL, EU)		
Monitoring procedures:					
BMGV:				Other information:	

Calcium	ovide



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Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,37	mg/l	
	Environment - marine		PNEC	0,24	mg/l	
	Environment - soil		PNEC	817,4	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	2,27	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	

B 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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/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.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

2004/37/CE).

8.2 Exposure controls

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. EN 14042.

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 ISO 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: fine powder or lumpy Physical state: Solid Colour: Beige



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Colour: Odour:

Odour threshold:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability: Lower explosion limit: Upper explosion limit: Flash point:

Auto-ignition temperature: Decomposition temperature:

рН:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure: Density and/or relative density: Relative vapour density:

Particle characteristics: 9.2 Other information

Explosives:

Oxidizing solids:

White Odourless Not applicable

>450 °C (Regulation (EC) 440/2008 A.1. (MELTING/FREEZING TEMPERATURE))

Not applicable

Not flammable (Regulation (EC) 440/2008 A.10. (FLAMMABILITY (SOLIDS)))

Does not apply to solids. Does not apply to solids. Does not apply to solids.

No

Not applicable 12,3 (20°C, saturated solution)

Not applicable

1337,6 mg/l (Regulation (EC) 440/2008 A.6. (WATER SOLUBILITY))

Not applicable

3,31 (Regulation (EC) 440/2008 A.3. (RELATIVE DENSITY), relative density)

Not applicable

There is no information available on this parameter.

There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

10.4 Conditions to avoid

Minimise exposure to air and moisture.

10.5 Incompatible materials

Calcium oxide reacts exothermically with water to form Calcium hydroxide:

CaO + H2O => Ca(OH)2 + 1155 kj/kg CaO

Calcium oxide reacts exothermically with acids to form Calcium salts.

Calcium oxide reacts with aluminium in the presence of moisture leading to the

production of hydrogen:

. CaO + 2 AI + 7 H2O => Ca[AI(OH)4]2 + 3 H2

10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5

n.a.

SECTION 11: Toxicological information

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

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

Calcium oxide Calcium oxide								
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	Calcium dihydroxide,		
					Toxicity)	The results are		
						applicable to calcium		
						oxide, sinde in		
						contact with		
						moisture calcium		
						hydroxide is formed.		
Acute toxicity, by inhalation:					0505 404 (1.18)	n.d.a.		
Skin corrosion/irritation:					OECD 431 (In Vitro Skin	Non-caustic,		
					Corrosion - Human Skin	Analogous		
					Model Test)	conclusion, Calcium		
01: " " "				5.113		dihydroxide		
Skin corrosion/irritation:				Rabbit		Irritant, in vivo		
Serious eye damage/irritation:				Rabbit		Risk of serious		
						damage to eyes., in		
Despiratory or alsia consitiontion.						Vivo		
Respiratory or skin sensitisation:					OFOD 474 (Deateriel	Not to be expected		
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative, Analogous		
					Reverse Mutation Test)	conclusion, Calcium		
Germ cell mutagenicity:					OECD 473 (In Vitro	dihydroxide Negative, Analogous		
Germ cen mutageriicity.					Mammalian Chromosome	conclusion, Calcium		
					Aberration Test)	dihydroxide		
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative, Analogous		
Germ Cen managemony.					Mammalian Cell Gene	conclusion, Calcium		
					Mutation Test)	dihvdroxide		
Carcinogenicity:					ividiation rest)	n.d.a.		
Reproductive toxicity:						n.d.a.		
reproductive toxicity.						II.u.a.		



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Carcinogenicity:			Rat	Analogous
				conclusion,
				Negative,
				administered as Ca-
				lactate
Reproductive toxicity:			Mouse	Analogous
				conclusion,
				Negative,
				administered as Ca-
				carbonate
Specific target organ toxicity - single				Irritation of the
exposure (STOT-SE):				respiratory tract
Specific target organ toxicity -				n.d.a.
repeated exposure (STOT-RE):				
Specific target organ toxicity -	36	mg/kg bw/d		(UL by SCF)
repeated exposure (STOT-RE), oral:				
Specific target organ toxicity -				Negative
repeated exposure (STOT-RE), dermal:				
Aspiration hazard:				No
Symptoms:				breathing difficulties,
				respiratory distress,
				drowsiness,
				diarrhoea, thirst,
				vomiting, cornea
				opacity, coughing,
				headaches, mucous
				membrane irritation,
				shock, sweating

11.2. Information on other hazards

Calcium oxide								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						n.d.a.		
Other information:						No other relevant		
						information available		
						on adverse effects		
						on health.		

SECTION 12: Ecological information

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

Calcium oxide	For deciding	T	W-I	1114	0	T4411	N-4
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	50,6	mg/l			freshwater, Calcium
							dihydroxide, The
							results are
							applicable to calciur
							oxide, sinde in
							contact with
							moisture calcium
							hydroxide is formed
12.1. Toxicity to fish:	LC50	96h	457	mg/l			marine water,
							Calcium dihydroxide
							The results are
							applicable to calciur
							oxide, sinde in
							contact with
							moisture calcium
							hydroxide is formed
12.1. Toxicity to daphnia:	EC50	48h	49,1	mg/l			freshwater, Calcium
							dihydroxide, The
							results are
							applicable to calciur
							oxide, sinde in
							contact with
							moisture calcium
							hydroxide is formed
12.1. Toxicity to daphnia:	LC50	96h	158	mg/l			marine water,
,			1				Calcium dihydroxide
							The results are
							applicable to calcium
							oxide, sinde in
							contact with
							moisture calcium
							hydroxide is formed
12.1. Toxicity to daphnia:	NOEC/NOEL	14d	32	mg/l			marine water,
12.11. Toxiony to daprillia.	I TOLO/ITOLL	170	52	1119/1			Calcium dihydroxide
							The results are
							applicable to calciur
							oxide, sinde in
							contact with
							moisture calcium
							hydroxide is formed



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12.1. Toxicity to algae:	NOEC/NOEL	72h	48	mg/l		freshwater, Calcium
12.1. Toxicity to algae.	NOEC/NOEL	7211	40	IIIg/I		dihydroxide, The
						results are
						applicable to calcium
						oxide, sinde in
						contact with
						moisture calcium
						hydroxide is formed.
12.1. Toxicity to algae:	EC50	72h	184,57	mg/l		freshwater, Calcium
						dihydroxide, The
						results are applicable to calcium
						oxide, sinde in
						contact with
						moisture calcium
						hydroxide is formed.
12.2. Persistence and						Not relevant for
degradability:						inorganic
-						substances.
12.3. Bioaccumulative						Not relevant for
potential:						inorganic
						substances.
12.4. Mobility in soil:						Calcium oxide reacts
						with water and/or
						carbon dioxide to
						form respectively calcium dihydroxide
						and/or calcium
						carbonate, which are
						sparingly, and so
						present a low
						mobility in most
						ground.
12.5. Results of PBT and						Not relevant for
vPvB assessment						inorganic
						substances.
12.6. Endocrine disrupting						Not to be expected
properties:						
12.7. 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
Oth or organisms.	NOTC/NOTI		2000			sewage sludge
Other organisms:	NOEC/NOEL		2000	mg/kg dw		Calcium dihydroxide, The results are
						applicable to calcium
						oxide, sinde in
						contact with
						moisture calcium
						hydroxide is formed.
						soil macroorganisms
Other organisms:	NOEC/NOEL		12000	mg/kg dw		Calcium dihydroxide,
				J 2		The results are
						applicable to calcium
						oxide, sinde in
						contact with
						moisture calcium
						hydroxide is formed.
						soil microorganisms
Other organisms:	NOEC/NOEL	21d	1080	mg/kg		Calcium dihydroxide,
						The results are
						applicable to calcium
						oxide, sinde in
						contact with
						moisture calcium
						hydroxide is formed. terrestrial plants
					i I	

SECTION 13: Disposal considerations



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13.1 Waste treatment methods

For the substance / mixture / residual amounts

FC 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.

For contaminated packing material

Pay attention to local and national official regulations.

Uncontaminated packaging can be recycled.

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: 1910

14.2. UN proper shipping name: UN 1910 Not subject to ADR

14.3. Transport hazard class(es):

14.4. Packing group:

Not applicable 14.5. Environmental hazards: Tunnel restriction code:

Classification code: C6

Transport category:

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1910

14.2. UN proper shipping name: UN 1910 Calcium oxide -NO SUBJECT TO IMDG-

14.3. Transport hazard class(es): 8

14.4. Packing group: 14.5. Environmental hazards: Not applicable

Marine Pollutant: Not applicable

Transport by air (IATA) 1910 14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1910 Calcium oxide 14.3. Transport hazard class(es):

14.4. Packing group:14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

Avoid any release of dust during transportation, by using tight tanks for powders.

When loading lump lime cover loading surfaces to avoid dust from developing.

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 oxide

SECTION 16: Other information

Revised sections:

Link exposure scenarios (Annex as a separate document):

https://sichdatonline.chemical-check.de/Dokumente/714/EX/A-1_0016_12-10-2022_EN_EX.pdf

Registration/listing status: EU:

ECOIN CAS: 1305-78-8 EINECS No.: 215-138-9 JAPAN:

ENCS No.: 1-189

ISHL







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KOREA:

ECL Serial No.: KE-04588

SWITZERLAND:

G-1351 Swiss No.: USA:

TSCA, FIFRA, DOT, FDA, NIOSH, OSHA, ACGIH, STATE

CANADA: DSL, WHMIS AUSTRALIA: **AICS** NEW ZEALAND:

NZIoC PHILIPPINES: **PICCS**

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 0717608700

IUCLID Dataset 2000

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: 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

92-9199-014-0 [SFC document]

Employee training in handling dangerous goods is required.

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

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHÁ Homepage - Information about chemicals. GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/16/4, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of ADR

Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately
Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate BAM

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA

BCF Bioconcentration factor **BSEF** The International Bromine Council

bw CAS body weight

Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMFI Derived Minimum Effect Level Derived No Effect Level DNFI Dissolved organic carbon DOC

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EbCx, EyCx, EbLx (x = 10, 50)Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community EC

European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

FFC **European Economic Community**



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EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ΕN European Norms

United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number general

gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

International Agency for Research on Cancer International Air Transport Association IARC IATA International Bulk Chemical (Code) IBC (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database International Union for Pure Applied Chemistry **IUPAC** LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable nа not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development

organic org.

OŠHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic PF

Polyethylene **PNEC**

Predicted No Effect Concentration

ppm PVC parts per million Polyvinylchloride

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 Right Resignation of the statement of th

by Rail) SVHC

Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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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