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### MATERIAL SAFETY DATA SHEET (MSDS)

## **SECTION 1 Product identifiers**

Product name : Calcium oxide, reagent grade Product Code: C 1466 CAS-No. : 1305-78-8

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or m	
Classification according to Regulation (B	EC) No 1272/2008
Skin irritation (Category 2), H315	
Serious eye damage (Category 1), H318	3
	posure (Category 3), Respiratory system, H335
For the full text of the H-Statements me	
2.2 Label elements	
Labelling according Regulation (EC) No	1272/2008
Pictogram	
Signal Word	Danger
Hazard statement(s)	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Precautionary statement(s)	may cause respiratory initiation.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	
P302 + P352	Wear protective gloves/ eye protection/ face protection.
	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
Supplemental Hazard	none
Statements	
Reduced Labeling	(<= 125 ml)
Pictogram	
Signal Word	Danger
Hazard statement(s)	
H318	Causes serious eye damage.
Precautionary statement(s)	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
Supplemental Hazard	none
Statements	
2.3 Other hazards	
This substance/mixture contains no con	nponents considered to be either persistent,
bioaccumulative and toxic (PBT), or very	y persistent and very bioaccumulative (vPvB) at
levels of 0.1% or higher.	
-	
<b>SECTION 3: Composition/information</b>	) on ingredients
3.1 Substances	
Synonyms : Quicklime	

Synonyms : Quicklime Lime Formula : CaO Molecular weight : 56,08 g/mol CAS-No. : 1305-78-8 EC-No. : 215-138-9

Component	Classification	Concentration
calcium oxide		
CAS-No. 1305-78-8	Skin Irrit. 2; Eye Dam. 1;	<= 100 %

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EC-No. 215-138-9	STOT SE 3; H315, H318, H335 Concentration limits:				
	20 %: STOT SE 3, H335;				
For the full text of the H-Statements men					
SECTION 4: First aid measures					
4.1 Description of first-aid measures					
General advice					
Show this material safety data sheet to the doctor in attendance.					
If inhaled					
After inhalation: fresh air.	After inhalation: fresh air.				
In case of skin contact					
	ely all contaminated clothing. Rinse skin w	<i>v</i> ith			
water/ shower.					
In case of eye contact					
	water. Immediately call in ophthalmologist				
Remove contact lenses.	100				
If swallowed	a drink water (two glasses at most). Consu				
physician.	n drink water (two glasses at most). Consu				
4.2 Most important symptoms and effects	both acute and delayed				
	d effects are described in the labelling (see	esection			
2.2) and/or in section 11	cheels are described in the labeling (see				
4.3 Indication of any immediate medical a	ttention and special treatment needed				
No data available					
SECTION 5: Firefighting measures					
5.1 Extinguishing media					
Suitable extinguishing media					
Use extinguishing measures that are appropriate to local circumstances and the					
surrounding environment.					
Unsuitable extinguishing media					
For this substance/mixture no limitations of extinguishing agents are given.					
5.2 Special hazards arising from the substance or mixture Nature of decomposition products not known.					
Not combustible.					
Ambient fire may liberate hazardous vapo	ours.				
5.3 Advice for firefighters					
Stay in danger area only with self-contain	ed breathing apparatus. Prevent skin cont	act by			
keeping a safe distance or by wearing suitable protective clothing.					
5.4 Further information					
Prevent fire extinguishing water from contaminating surface water or the ground water					
system.					
OFOTION & Assistantia					
SECTION 6: Accidental release measu					
6.1 Personal precautions, protective equipment and emergency procedures					
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,					
consult an expert.	e danger area, observe emergency procee				
For personal protection see section 8.					
6.2 Environmental precautions					
Do not let product enter drains.					
6.3 Methods and materials for containment and cleaning up					
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions					
(see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid					
generation of dusts.					
6.4 Reference to other sections					
For disposal see section 13.					

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### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Store under inert gas. Moisture sensitive. Storage class Storage class (TRGS 510): 11: Combustible Solids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum laver thickness: 0.11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. **Body Protection** protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains.

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Melting point/range: > 450 °C - Regulation (EC) No. 440/2008,

1,3376 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6

3,31 at 22 °C - Regulation (EC) No. 440/2008, Annex, A.3

## **SECTION 9: Physical and chemical properties**

powder

odorless

2.850 °C - lit.

No data available

No data available

Not applicable

No data available

none

3,3 g/mL at 25 °C - lit.

Viscosity, kinematic: No data available Viscosity, dynamic: Not applicable

Not applicable for inorganic substances

12,6 at 20 °C

beige

9.1 Information on basic physical and chemical properties a) Physical state b) Color c) Odor d) Melting point/freezing point Annex, A.1 e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature i) Decomposition temperature k) pH (saturated solution) Ì) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density g) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available

**SECTION 10: Stability and reactivity** 

10.1 Reactivity No data available 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions Risk of explosion with: Hydrogen halides Water Risk of ignition or formation of inflammable gases or vapours with: Alcohols Hydrogen fluoride hydrogen sulphide Exothermic reaction with: halogen-halogen compounds Fluorine Hydrazine hydrate Glycerine Acids sugars 10.4 Conditions to avoid Avoid moisture.

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no information available 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products In the event of fire: see section 5

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. **SECTION 12: Ecological information** 12.1 Toxicity Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 50,6 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 49,1 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - 184,57 mg/l 72 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - 300,4 mg/l - 3 h (OECD Test Guideline 209) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC - Crangon crangon (shrimp) - 32 mg/l - 14 d Remarks: (ECHA) 12.2 Persistence and degradability The methods for determining the biological degradability are not applicable to inorganic substances 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product. Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects No data available

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### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### **SECTION 14: Transport information** 14.1 UN number ADR/RID: -IMDG: -IATA: -14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: -14.4 Packaging group ADR/RID: -IMDG: -IATA: -14.5 Environmental hazards ADR/RID<sup>.</sup> no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available Further information : No data available **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Other regulations Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **Section 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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