OTTO CHEMIE PVT LTD

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-----ISO 9001: 2015-----

MATERIAL SAFETY DATA SHEET

SECTION 1 Product identifiers

Product name : Calcium hydroxide, 96% Product Code: C 1435 CAS-No. : 1305-62-0

SECTION 2: Hazards identification

SECTION 2: Hazards identit						
2.1 Classification of the substance or mixture						
Classification according to Regulation (EC) No 1272/2008						
Skin irritation (Category 2), H315						
Serious eye damage (Category 1), H318						
Specific target organ toxicity	Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335					
For the full text of the H-State	ements mentioned in this Section, see Section 16.					
2.2 Label elements						
Labelling according Regulation	on (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)						
P261	Avoid breathing dust.					
P264	Wash skin thoroughly after handling.					
P271	Use only outdoors or in a well-ventilated area.					
P280	Wear protective gloves/ eye protection/ face protection.					
P302 + P352	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.					
14	Remove contact lenses, if present and easy to do. Continue					
No.	rinsing.					
Supplemental Hazard	none					
Statements						
2.3 Other hazards						
This substance/mixture conta	ains no components considered to be either persistent,					
bioaccumulative and toxic (P	BT), or very persistent and very bioaccumulative (vPvB) at					
levels of 0.1% or higher.	· · · · · · ·					
-						
SECTION 3: Composition/ir	nformation on ingredients					

3.1 Substances Formula : H2CaO2 Molecular weight : 74,09 g/mol CAS-No. : 1305-62-0 EC-No. : 215-137-3 Component

Component	Classification	Concentration	
Calcium hydroxide			
CAS-No. 1305-62-0	Skin Irrit. 2; Eye Dam. 1;	<= 100 %	
EC-No. 215-137-3	STOT SE 3; H315, H318,		
	H335		

For the full text of the H-Statements mentioned in this Section, see Section 16.

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. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eye contact After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention 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 Calcium oxide Not combustible. Ambient fire may liberate hazardous vapours. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact 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.

SECTION 6: Accidental release measures

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.
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.

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. Storage class Storage class (TRGS 510): 13: Non 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

Derived	No	Effect	Level	(DNEL)	

Derived No Effect Level (DNE	EL)			
Application Area	Routes of exposure	Health effect	Value	
Worker DNEL,acute	inhalation	Local effects	4 mg/m3	
Worker DNEL,longterm	inhalation	Local effects	1 mg/m3	
Consumer DNEL,acute	inhalation	Local effects	4 mg/m3	
Consumer DNEL,longterm	inhalation	Local effects	1 mg/m3	
Predicted No Effect Concentry				
Compartment		Value		
Fresh water		0,49 mg/l		
Sea water		0,32 mg/l		
Aquatic intermittent release		0,49 mg/l		
Soil		1080 mg/kg		
Sewage treatment plant		3 mg/l		
8.2 Exposure controls		o mg/i		
Personal protective equipmer	nt			
Eye/face protection				
	eye protection tested and a	proved under appropriate		
		EN 166(EU). Tightly fitting s	afety	
goggles		Lit roo(Lo). Fightly hally a		
Skin protection				
	Gloves must be inspected	prior to use. Use proper glow		
0	•	ter surface) to avoid skin co		
		es after use in accordance v		
	good laboratory practices.			
		he specifications of Regulati	on (ELI)	
•	tandard EN 374 derived from	, , , , , , , , , , , , , , , , , , ,		
Full contact	tandard EN 374 derived itol			
	hor C			
Material: Nitrile rubber Minimum layer thickness: 0,11 mm				
Break through time: 480 min Splash contact				
Material: Nitrile rub	hor	West I		
Minimum layer thick		1 - 6	J L L	
Break through time				
		phone +49 (0)6659 87300, e	a-mail	
sales@kcl.de, test		phone +++ (0)0059 6/300, e		
		ces, and under conditions wh	aich	
	contact the supplier of the E			
		evaluated by an industrial hy	vaienist	
		tion of anticipated use by ou		
		ng an approval for any speci		
scenario.	a not be constitued as offerin	ig an approvalior any speci		
Body Protection				
protective clothing				
Respiratory protect	ion			
required when dust				
		rotection are based on the fo	bllowing	
		accompanying standards rela		
	y protection system.		2019 10	
	er type: Filter type P2			
	as to ensure that maintenan	ce, cleaning and testing of re	espiratory	
		the instructions of the production		
	ave to be properly document			
Control of environm				
Do not let product e				
SECTION & Physical and a	hemical properties			
SECTION 9: Physical and cl				
9.1 Information on basic phys				
a) Physical state	powder			
b) Color c) Odor	beige No data availabl	2		
	ino data avallabl			

c) Odor
d) Melting
point/freezing point
e) Initial boiling point
and boiling range
f) Flammability (solid,

No data available Melting point/range: >= $450 \degree C$ - Regulation (EC) No. 440/2008, Annex, A.1 2.850 $\degree C$ - (decomposition)

The product is not flammable.

gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties s) Explosive properties s) Cher safety information Surface tension 72 mN/m at 1g/l at 20 °C - OECD Test Guideline 115

No data available

Not applicable > 400 °C - Relative self-ignition temperature for solids No data available

12,4 - 12,6 at 20 °C Viscosity, kinematic: No data available Viscosity, dynamic: No data available 1,85 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6 Not applicable for inorganic substances

No data available 2,24 g/mL at 25 °C - lit. 2,22 at 20 °C - OECD Test Guideline 109

No data available

No data available none

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 Exothermic reaction with: hydrogen sulphide Light metals phosphorus organic nitro compounds acids Risk of explosion with: anhydrides 10.4 Conditions to avoid no information available 10.5 Incompatible materials Light metals 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 (green algae) -184,6 mg/l - 72 h (OECD Test Guideline 201) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) Remarks: (ECHA) (Calcium hydroxide) 12.2 Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances. 12.3 Bioaccumulative potential Does not bioaccumulate. 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 **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: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available Further information Not classified as dangerous in the meaning of transport regulations.

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
A Chemical Safety Assessment has been carried out for this substance.

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.

