

# SAFETY DATA SHEET

Creation Date 11-Oct-2010	Revision Date 31-Mar-2022	Revision Number 1	
1. Identification			
Product Name	Calcium hydroxide		
Cat No. :	C2495		
Synonyms	Calcium oxide, hydrated		
Recommended Use	Laboratory chemicals		
Uses advised against	No Information available		
Details of the supplier of the safe	ety data sheet		
Company			

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**2. Hazard(s) identification** 

# **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

# Label Elements

Signal Word Danger

Hazard Statements Causes severe skin burns and eye damage May cause respiratory irritation



Category 1 Category 3

Category 1

**Precautionary Statements** Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Spills Absorb spillage to prevent material damage Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place Disposal Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

# **3.** Composition / information on ingredients

#### Haz/Non-haz

Component	CAS-No	Weight %
Calcium hydroxide	1305-62-0	>95

# 4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects	Causes eye burns.
Notes to Physician	Treat symptomatically.

	5. Fire-fighti	ng measures	
Suitable Extinguishing Media	Substance is nonflammable	e; use agent most appropriate to	extinguish surrounding fire
Unsuitable Extinguishing Media	Carbon dioxide (CO2)		
Flash Point Method -	Not applicable No information available		
Autoignition Temperature Explosion Limits	No information available.		
Upper Lower	No data available No data available		
Sensitivity to Mechanical Impact	No information available		
Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the Ch Non-combustible. Contact with metals n		en gas.	
Hazardous Combustion Products	Calcium oxides.		
Protective Equipment and Precaution As in any fire, wear self-contained breat gear. Thermal decomposition can lead	hing apparatus pressure-der		or equivalent) and full protective
NFPA Health 3	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.		
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological Information.		
Methods for Containment and Clean Up	Sweep up or vacuum up sp formation.	illage and collect in suitable cont	ainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		quipment. Ensure adequate vent et in eyes, on skin, or on clothing	

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

# 8. Exposure controls / personal protection

# **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium hydroxide	TWA: 5 mg/m <sup>3</sup>	(Vacated) TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Calcium hydroxide	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

<u>Legend</u> ACGIH - American Conference of Gove Not applicable NIOSH IDLH: The National Institute for	ernmental Hygienists r Occupational Safety and Health Immediately Dangerous to Life or Health
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Respiratory Protection	

Handle in accordance with good industrial hygiene and safety practice

# 9. Physical and chemical properties

**Hygiene Measures** 

Solid Off-white Odorless No information available. 12.4 saturated solution 580°C / 1076°F 2850°C / 5162°F Not applicable No information available. No information available

No data available No data available No information available. 2.240 No information available. No data available No information available. No information available. No information available. H2 Ca O2 74.09

# **10. Stability and reactivity**

Reactive Hazard	None known, based on information available.
Stability	Stable under normal conditions. Air sensitive. Moisture sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods.
Incompatible Materials	Strong oxidizing agents, Metals, Reducing agents, Acids, Bases
Hazardous Decomposition Products	Calcium oxides

## **Hazardous Polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions** 

Contact with metals may evolve flammable hydrogen gas.

# **11. Toxicological information**

## Acute Toxicity

Component Information Component	LD50 Oral	LD50 Dermal	LC50 Inhalation			
Calcium hydroxide	7340 mg/kg (Rat)	7340 mg/kg (Rat) Not listed Not listed				
Toxicologically Synergistic Products	No information available.					
Delayed and immediate effects a	s well as chronic effects from sho	rt and long-term exposure				
Irritation	Causes severe eye burns, Cau	Causes severe eye burns, Causes skin burns, Irritating to respiratory system				
Sensitization	No information available.					
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen					

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Calcium hydroxide	1305-62-0	Not listed				

Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	Respiratory system.
STOT - repeated exposure	None known.
Aspiration hazard	No information available.
Symptoms / effects, both acute and delayed	No information available.
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated See actual entry in RTECS for complete information.

# **12. Ecological information**

# **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium hydroxide	Not listed	160 mg/L LC50 96 h	Not listed	Not listed

Persistence and Degradability

No information available.

<b>Bioaccumulation/Accumulation</b>	No information available
Mobility	No information available

## **13. Disposal considerations**

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a<br/>hazardous waste. Chemical waste generators must also consult local, regional, and national<br/>hazardous waste regulations to ensure complete and accurate classification.

# **14. Transport information**

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

# **15. Regulatory information**

#### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Calcium hydroxide	Х	Х	-	215-137-3			Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		Yes No No No No
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

**OSHA** Occupational Safety and Health Administration Not applicable

Not Applicable

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium hydroxide	Х	Х	Х	-	Х

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### **Other International Regulations**

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material



# **16. Other information**

**Prepared By** 

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Creation Date Revision Date Print Date 11-Oct-2010 31-Mar-2022 31-Mar-2022

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.