

SAFETY DATA SHEET

Creation Date 11-Oct-2010	Revision Date 31-Mar-2018	Revision Number 1
	1. Identification	
Product Name	Calcium hydroxide	
Cat No. :	C2490	
Synonyms	Calcium oxide, hydrated	
Recommended Use	Laboratory chemicals	
Uses advised against	No Information available	
Details of the supplier of the saf	ety data sheet	
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Company

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 512-668-9918

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.

Category 1 Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation



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-fighting measures
Suitable Extinguishing Media	Substance is nonflammable; 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	
Hazardous Combustion Products	Calcium oxides.
Protective Equipment and Precaution	ns for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions	Use personal protective eq get in eyes, on skin, or on		ation. Avoid dust formation. Do not
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological Information.		2 for additional ecological
Methods for Containment and Clean Up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. 		tainer for disposal. Avoid dust
	7. Handling	and storage	
Handling	• •	equipment. Ensure adequate ven et in eyes, on skin, or on clothing	
Storage	Keep containers tightly clo	sed in a dry, cool and well-ventila	ted place. Corrosives area.

8. Exposure controls / personal protection

Exposure Guidelines

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

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

Engineering Measures

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L	ege	ena	

ACGIH - American Conference of Governmental Hygienists

Not applicable NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition temperature
Viscosity
Molecular Formula
Molecular Weight

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 N

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

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	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium hydroxide	7340 mg/kg (Rat)	Not listed	Not listed
Foxicologically Synergistic Products	No information available.		
Delayed and immediate effects a	s well as chronic effects from sh	ort and long-term exposure	
Irritation	Causes severe eye burns, Ca	auses skin burns, Irritating to re	espiratory system
Sensitization	No information available.		
Carcinogenicity	The table below indicates wh	ether each agency has listed a	ny ingredient as a carcinogei

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 complete information.

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.

Bioaccumulation/ Accumulation	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
hazardous waste. Chemical waste generators must also consult local, regional, and national
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
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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

CERCLA

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):	N
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 Revision Summary 11-Oct-2010 31-Mar-2014 31-Mar-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). 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.

