## **Calcium Hydroxide**



### Section 1

### **Product Description**

Product Name: Calcium Hydroxide

**Recommended Use:** Science education applications

Synonyms: Calcium Hydrate, Slaked Lime, Caustic Lime
Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

## **DANGER**



Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3

Acute Toxicity Dermal Contains
100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

#### **Section 3**

### **Composition / Information on Ingredients**

 Chemical Name
 CAS #
 %

 Calcium Hydroxide
 1305-62-0
 100

#### **Section 4**

#### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

#### Section 5

Ingestion:

### **Firefighting Procedures**

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

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Fire and/or Explosion Hazards: **Hazardous Combustion Products:**  Fire or excessive heat may produce hazardous decomposition products.

Calcium Oxides

#### Section 6

### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the

spill. Never exceed any occupational exposure limits. Avoid dusting.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

### Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the

environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with

clothing. Avoid contact with skin and eyes. Avoid creating and inhaling dust.

Store locked up. Keep container tightly closed in a cool, well-ventilated place. Storage:

Material is hygroscopic (absorbs moisture).

White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids. Storage Code:

#### Section 8

### Protection Information

**ACGIH OSHA PEL** (STEL) **Chemical Name** (TWA) (STEL) (TWA) 15 mg/m3 TWA Calcium Hydroxide 5 mg/m3 TWA N/A N/A

(total dust); 5 mg/m3 TWA (respirable fraction)

**Control Parameters** 

Skin Protection:

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

**Respiratory Protection:** 

Lab coat, apron, eye wash, safety shower.

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Wear chemical splash goggles when handling this product. Have an eye wash station

**Eye Protection:** 

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

#### Section 9

## Physical Data

Formula: Ca(OH)2 Molecular Weight: 74.10

Appearance: White to Gray Powder

Odor: No data available

Odor Threshold: No data available

pH: No data available Melting Point: 580 C

Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: 0 hPa at 20 °C

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Specific Gravity: 2.24 at 20 °C Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available

**Decomposition Temperature: 2850 C** Viscosity: No data available

Percent Volatile by Volume: No data available

#### Section 10

### Reactivity Data

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**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:
Incompatible Materials:
Hazardous Decomposition Products:
Hazardous Polymerization:

None known.
Strong acids
Calcium Oxides
Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Nausea, Coffee Ground Emesis, Diarrhea

Delayed Effects: Dermititis

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Calcium Hydroxide1305-62-0Oral LD50 MouseNot determinedNot determined

7300 mg/kg Oral LD50 Rat 7340 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHACalcium Hydroxide1305-62-0Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No data available Chronic: No data available

Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** No data **Other Adverse Effects:** No data

Chemical Name CAS Number Eco Toxicity

Calcium Hydroxide 1305-62-0 96 HR LC50 GAMBUSIA AFFINIS 160 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Calcium Hydroxide	1305-62-0	No	No	No	No	No

# Section 16 Additional Information

Revised: 09/21/2015 Replaces: 09/09/2015 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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