

Product Name: CALCIUM HYDROXIDE

PRODUCT IDENTIFICATION

Synonyms: Calcium Hydrate; Slaked Lime; Hydrated Lime; Caustic lime
Chemical Formula: Ca(OH)₂
Formula Weight: 74.09
Chemical Family: Inorganic calcium salt
Integra Product Numbers: C085.10; C085.32; C085.50

HMIS Rating: 2-0-1-F

NFPA Rating: NE Warning Label:

HAZARD OVERVIEW

WARNING!

Contact causes irritation or burns. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Harmful if inhaled. Use only with adequate ventilation.

COMPONENTS

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Calcium hydroxide	01305-62-0	100

PHYSICAL DATA

Boiling Point: NA Melting Point: 580 °C

Specific Gravity: 2.24 Water=1
Evaporation Rate: NA
Vapor Pressure: NA

Vapor Density: NAAir = 1

Solubility:

0.2g in 100g water.

Appearance and Odor:

White powder. Odorless.

FIRE AND EXPLOSION DATA

Flash Point: NA Test Method:
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air):

Upper: NA

Lower: NA

Fire Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:

Effects of Overexposure

None identified

HEALTH HAZARD INFORMATION

Skin Contact: Contact may cause severe irritation or burns.

Eye Contact: Ingestion: Inhalation:

Contact may burn or damage the eyes.

May be harmful if swallowed. May cause burns to the mouth, throat and gastrointestinal tract.

Harmful if inhaled. Irritating to the nose and throat and respiratory system. Overexposure may cause coughing, difficulty in breathing and chest pains.

Chronic Effects of Overexposure:

Corneal damage, conjunctivitis, defatting of the skin, severe skin irritation, dermatitis

<u>Exposure Limits:</u> Calcium hydroxide	<i>OSHA PEL:</i>	<i>TWA</i> 5 mg/m3	<i>STEL</i> NE	<i>Ceiling</i> NE
Calcium hydroxide	<i>ACGIH TLV:</i>	<i>TWA</i> 2 mg/m3	<i>STEL</i> NE	<i>Ceiling</i> NE
<u>Toxicity Data:</u> Calcium hydroxide		LD50 (oral, rat)		7.3 g/kg

Medical Conditions Generally Aggravated by Exposure: None Identified

Target Organs:

Eyes, respiratory system, skin.

Reproductive Effects:

None Identified

Carcinogenicity:

None Identified

<u>Component</u> Calcium hydroxide	<u>NTP Listing</u> No listing	<u>IARC Listing</u> No Listing	<u>OSHA Regulated</u>
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EMERGENCY FIRST AID PROCEDURES

Skin Contact: Eye Contact: Inhalation:

Ingestion:

Flush skin with plenty of water. Seek medical attention.

Flush with water for at least 15 minutes. Seek immediate medical attention.

Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

If conscious, give small amounts of water or milk. Do not induce vomiting. Seek immediate medical attention.

Additional First Aid and Treatment Notes: No information available

REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will Not Occur

Incompatibles:

REACTIVITY DATA

Incompatible with strong acids. Boric oxide, fluorine, many organic materials. Reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus.

Decomposition Products:

None identified

Conditions to Avoid:

None identified

SPILL AND DISPOSAL PROCEDURES

Spill and Leak Procedures: Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment.

Disposal Procedures: Dispose in accordance with all Local, State and Federal regulations.

PROTECTIVE EQUIPMENT

Ventilation:

Use general or local exhaust ventilation to meet TLV and PEL requirements.

Respiratory Protection:

None required where adequate ventilation conditions exist. If airborne concentration exceeds PEL or TLV a dust/mist respirator is recommended.

Skin and Eye Protective Equipment Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby.

STORAGE AND HANDLING PRECAUTIONS

Storage Area: GENERAL

Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect containers from physical damage. Material is reacts with CO2 in air to form calcium carbonate. Keep containers tightly closed.

TRANSPORTATION INFORMATION

Regulated Material domestic ground transportation

Proper Shipping Name: UN or NA Identification number:

(reference: CFR Title 49, Transportation)

Hazard Class and Label:

Packing Group:

Subsidiary Risk and Label:

Regulated Material via Air Transportation

Proper Shipping Name: UN Identification Number: Packing Group:

Passenger Aircraft: Cargo Aircraft:

Component

(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

Hazard Class and Label: Subsidiary Risk and Label:

Packing Instruction

Max net qty per package

REGULATORY INFORMATION

TSCA Inventory CERCLA RQ SARA EHS TPQ SARA 313 Toxic Release de minimus

Calcium hydroxide lbs lbs lbs

SARA Hazard Categories: Acute Chronic Flammability Pressure Reactivity

Calcium hydroxide

Calcium hydroxide

Clean Air Act Categories: SOCMI HAP Volatile HAP Organic HAP Ozone Depleting

MSDS Revision History:

- 002 - Changed header phone number
- 003 - Format revisions; updated header phone number
- 004 - Updated Header Information
- 005 - Updated Hazard Overview, Physical Data, Health Hazard, & Reactivity sections

NE = Not established, NA = Not applicable or Not available

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