

# Material Safety Data Sheet



Sultan Healthcare

85 West Forest Avenue, Englewood, NJ 07631

Phone: 201-871-1232 • Toll Free: 800-637-8582

Fax: 201-871-0321 • <http://sultanhealthcare.com>

EU Auth. Rep. (MDD 93/42/EEC)

MDSS GmbH • Schiffgraben 41 • D-30175 Hannover, Germany

**FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week**  
**Outside the United States call collect 1-352-323-3500**

Q-Form 10-111, Rev. D

Date Reviewed: May 19, 2008

## 1. Chemical Identification

Common Name: Calcium Hydroxide

Synonyms: Calcium hydrate; slaked lime

Ref #: 10301 – 2 oz

## 2. Composition/Information on Ingredients

Calcium Hydroxide CAS # 1305-62-0 Percent: 100 %

## 3. Hazards Identification

**Danger! Harmful if swallowed or inhaled. Causes burns to skin and eyes. Causes severe irritation to respiratory tract.**

**Inhalation:** Causes irritation to the respiratory tract.

Symptoms may include coughing, shortness of breath. Can cause chemical bronchitis.

**Ingestion:** Gastric irritant. Ingestion may be followed by severe pain, vomiting, diarrhea, and collapse. If death does not occur in 24 hours, esophageal perforation may occur, as evidenced by fall in blood pressure and severe pain. A narrowing of the esophagus may occur weeks, months, or years after ingestion, making swallowing difficult.

**Skin Contact:** Corrosive. May cause severe burns and blistering, depending on duration of contact.

**Eye Contact:** Corrosive. May produce severe irritation and pain. May introduce ulcerations of the corneal epithelium. Can cause blindness.

**Chronic Exposure:** Prolonged or repeated skin contact may produce severe irritation or dermatitis.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin problems or impaired respiratory function may be more susceptible to the effects of this substance.

## 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

**Ingestion:** Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Skin Contact:** In case of contact, wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.

**Eye Contact:** Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

## 5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures: In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL):  
15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction)

ACGIH Threshold Limit Value (TLV): 5mg/m<sup>3</sup>

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Personal respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a full face piece particulate respirator (NIOSH type N100

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filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricant, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full face-piece positive pressure, air-supplied respirator. Warning: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Eye Protection: Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick drench facilities in work area.

## 9. Physical and Chemical Properties

Appearance: White crystals or powder

Odor: Odorless

Solubility: 0.185g/100 ml water @ 0C

Specific Gravity: 2.24

pH (saturated solution): 12.4

% Volatile by volume @ 21C (70F): 0

Boiling Point (° C): Decomposes

Melting Point: 580C (1076F)

Vapor Density (Air = 1): No information found

Vapor Pressure (mm Hg @ C): No information found

Evaporation Rate (Butyl acetate = 1): No information found

## 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Readily absorbs carbon dioxide from air to form calcium carbonate.

Hazardous Decomposition Products: Caustic fumes of calcium oxide form when heated to decomposition (580C; 1076F)

Hazardous Polymerization: Will not occur

Incompatibilities: Violent reactions with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus. As a strongly alkaline material, it is incompatible with acids.

Conditions to Avoid: Air, dusting, and incompatibles

## 11. Toxicological Information:

Oral Rat LD50: 7340 mg/kg

Eye Rabbit, standard Draize: 10 mg, severe

Investigated as a mutagen

## 12. Ecological Information

Environmental Fate: This material is not expected to significantly bioaccumulate.

Environmental Toxicity: No information found

## 13. Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transit Information

Not DOT regulated

## 15. Regulatory Information

United States TSCA: Calcium Hydroxide is on the chemical inventory.

Federal, State, and International Regulations:

SARA 302		SARA 313	
RQ	TPQ	List	Chemical Category
No	No	No	No

## 16. Other Information:

Directions for Use: Mix into paste as a dressing for apexification procedures, direct and indirect pulp capping and as a sub-base under restorations.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.