

MATERIAL SAFETY DATA SHEET

| SECTION I NAME | | 24 HOUR EMERGENCY ASSISTANCE | |
|-------------------|------------------------------|--|--|
| Product | CALCIUM HYDROXIDE | <p>CHEMTREC 800-424-9300 Day 716-226-6177 Night 716-334-4222</p> <p>Health 1 Fire 0 Reactivity 1</p> | |
| Chemical Synonyms | Calcium Hydrate, Slaked Lime | | |
| Formula | Ca(OH) ₂ | | |
| Unit(s) Size | 100 grams to 2.5 kg. | | |
| C.A.S. No. | 1305-62-0 | | |

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

| Principal Hazardous Component(s) | % | TLV Units |
|----------------------------------|------|---------------|
| Calcium Hydroxide | >98% | See Section V |

CAUTION! INJURIOUS TO EYES-PROLONGED CONTACT WITH WET SKIN MAY PRODUCE BURNS.

SECTION III PHYSICAL DATA

| | | | |
|-------------------------|--|---|---------------------|
| Melting Point (°F) | -H ₂ O at 580°C | Specific Gravity (H ₂ O = 1) | 2.343 at 20°C |
| Boiling Point (°F) | Decomposes | Percent Volatile by Volume (%) | Negligible as solid |
| Vapor Pressure (mm Hg) | Negligible as solid | Evaporation Rate (= 1) | Not applicable |
| Vapor Density (Air = 1) | 2.6 | | |
| Solubility in Water | Slightly soluble in water. | | |
| Appearance and Odor | Fine white or yellow white powder; odorless. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---------------------------|---|-------------------------------------|----------|----------|
| Flash Point (Method Used) | Non-combustible (NA). | Flammable Limits in Air % by Volume | Lower NA | Upper NA |
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. | | | |

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous dust and/or hazardous decomposition products.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

TWA: 5 mg/m³ (ACGIH, 1981).

Effects of Overexposure

INHALATION: Dust causes severe irritation to the upper respiratory tract.
EYES AND SKIN: Causes burns. Can cause dermatitis.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. Get medical attention.
SKIN: In case of contact, flush thoroughly with water.
EYES: Flush with water for 15 minutes. Get prompt medical attention.
INGESTION: If swallowed, if conscious, give large amounts of water or citrus juice. Call a physician.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Stable | Conditions to Avoid |
|-----------|----------|--------|---|
| | | X | Moisture. Excessive temperature and heat. |

Incompatibility (Materials to avoid) Avoid acids.

Hazardous Decomposition Products Calcium Oxide (quick lime).

| Hazardous Polymerization | Conditions to Avoid |
|--------------------------|---------------------|
| May Occur | Will Not Occur |

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container.

Waste Disposal Method

Dispose of in an approved chemical landfill or contact a licensed chemical waste disposal agency.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH-approved dust mask.

| Ventilation | Local Exhaust | Recommended | Special | No |
|----------------------|---------------|-------------|---------|----|
| Mechanical (General) | Recommended | | | |

Protective Gloves Rubber Eye Protection Chemical Safety glasses.

Other Protective Equipment Goggles, smock, apron, proper gloves, ventilation hood, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

| Rev. No. | No.1 | Date | 1/12/87 | Approved | Alexander Piccirilli | Chemical Safety Coordinator | AP |
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D.O.T. OTHER REGULATED MATERIAL-A