

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



**IDENTITY** Type N Hydrated Lime  
Ca(OH)<sub>2</sub>

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

### Section I

#### Manufacturer's Name and Address

Chemical Lime Company  
3724 Hulen Street  
Fort Worth, Texas 76107

#### Emergency Telephone Number

Chemtrec 800-424-9300

#### Information Phone Number

817-732-8164

#### Date Prepared

3/30/2006

### Section II - Hazardous Ingredients/Identity Information

| Hazardous Components | CAS        | Common Name   | OSHA PEL             | ACGIH TLV               | Other Limits        | % (optional) |
|----------------------|------------|---------------|----------------------|-------------------------|---------------------|--------------|
| Calcium hydroxide    | 1305-62-0  | Hydrated Lime | 5 mg/m <sup>3</sup>  | 5 mg/m <sup>3</sup>     | 7340 mg/kg          | >90%         |
| Magnesium hydroxide  | 1309-42-8  | Brucite       | N.A.                 | N.A.                    |                     | <5%          |
| Magnesium oxide      | 1309-48-4  | Periclase     | 10 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup>    | 6 mg/m <sup>3</sup> | <5%          |
| Calcium carbonate    | 1317-65-3  | Limestone     | 15 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup>    | 6450 mg/kg          | <3%          |
| Silicon dioxide      | 14808-60-7 | Quartz        | *see note below      | 0.025 mg/m <sup>3</sup> | 4 mg/m <sup>3</sup> | <2%          |

\*SiO<sub>2</sub> OSHA PEL: 10 mg/m<sup>3</sup> divided by (the percentage of silica in the dust plus 2) (respirable)

### Section III - Physical/Chemical Characteristics

|                        |   |               |             |                  |                |
|------------------------|---|---------------|-------------|------------------|----------------|
| Boiling Point          | 2850 °C                                 | Melting Point | dec. 580 °C | Specific Gravity | 2.2 - 2.4 g/cc |
| Vapor Pressure (mm Hg) | N.A.                                    | Vapor Density | N.A.        | Evaporation Rate | N.A.           |
| Solubility in Water    | Slightly soluble in water. pH=12.4@25°C |               |             |                  |                |
| Appearance and Odor    | White or gray powder, odorless          |               |             |                  |                |

### Section IV - Fire and Explosion Hazard Data

|             |         |                  |   |
|-------------|---------|------------------|---|
| Flash Point | LEL/UEL | Flammable Limits | Extinguishing Media   |
| N.A.        | N.A.    | N.A.             | Not Combustible -- Use extinguishing agent for surrounding fire |

#### Special Firefighting Procedures/Unusual Fire and Explosion Hazards

Avoid skin contact or inhalation of dust.

### Section V - Reactivity Data

|           |   |
|-----------|---|
| Stability | Conditions to Avoid (stability - related) |
| Stable    | Material is stable                        |

#### Incompatibility (Materials to Avoid)

Acids: Reacts vigorously and produces heat. Maleic Anhydride: May react explosively. Nitro Organic Compounds: May react to form explosive salts. Phosphorous: May form flammable products when heated. Aluminum: May react in presence of water to form hydrogen gas.

Hazardous Polymerization/Hazardous Decomposition of Byproducts Will not occur (none)

### Section VI - Health Hazard Data

Route(s) of Entry: Inhalation, Ingestion

#### Health Hazards (Acute and Chronic)

Avoid skin and eye contact as irritation will occur. Contact lenses should not be worn when working with lime products. Inhalation can cause coughing, sneezing, or breathing problems.

Carcinogenicity: OSHA? SiO<sub>2</sub> NTP/IARC Monographs? SiO<sub>2</sub>

Respirable crystalline silica from occupational sources is classified by IARC as a Group I Carcinogen.

California Proposition 65: Silica is on the Governor's Proposition 65 list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium) that are on the Governor's Proposition 65 list.

**Section VI - Health Hazard Data (continued)****Signs and Symptoms of Exposure**

Skin or eye irritation; coughing or breathing problems.

**Medical Conditions Generally Aggravated by Exposure**

Respiratory problems, asthma, dermatitis or skin or eye sensitivity.

**Emergency and First Aid Procedure**

Flush contaminated area with excess water. If eye contact, rinse eye with eye wash solution or excess water and seek medical attention immediately.

**Section VII - Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Protect skin and eyes from contact and avoid inhalation of dust. If material is dry pick up and keep away from acids or organic materials. Place in steel drums.

**Waste Disposal Method**

Carefully add water and flush to sewer. Consult local, state, or federal regulations.

**Precautions to be Taken in Handling and Storage**

Store in tightly closed containers and keep dry and away from acids or other incompatible substances.

Do not store or ship in aluminum containers.

**Other Precautions**

Avoid eye contact and breathing dust.

**NFPA Rating:** HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**HMIS Rating:** HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**WHMIS Rating:** D2A, E

**Section VIII - Control Measures****Respiratory Protection (Specify Type)**

Dust masks meeting the NIOSH N95 rating are sufficient for casual exposure. (42 CFR)

|                    |  |                |  |
|--------------------|--|----------------|--|
| <b>Ventilation</b> | <b>Local Exhaust</b><br>Vent to dust collector               | <b>Special</b> | Do not dispose of dust with combustible materials. |
|                    | <b>Mechanical (General)</b><br>Vent to meet TLV requirements | <b>Other</b>   |  |

**Protective Gloves**

Dry cloth or leather gloves

**Other Protective Clothing or Equipment**

Full clothing to cover arms and legs, safety glasses or face shield.

**Work/Hygienic Practices**

Eye wash and shower station should be readily available.

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References: Sax, N.I. & R.J. Lewis Sr. (1989) "Dangerous Properties of Industrial Materials", New York: Van Nostrand Reinhold Co. Ltd.

Lewis, R.J. (1997) "Hazardous Chemicals Desk Reference", New York: Van Nostrand Reinhold Co. Ltd. KSA