

# 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** Dolomitic Slurry  
Ca(OH)<sub>2</sub>\*Mg(OH)<sub>2</sub> (Lime slurry)

*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	10-35%
Magnesium hydroxide	1309-42-8	Brucite	N.A.	N.A.		10-25%
Calcium carbonate	1317-65-3	Limestone	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	6450 mg/kg	<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%
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

<b>Boiling Point</b>	100 °C	<b>Melting Point</b>	dec. 580 °C	<b>Specific Gravity</b>	1.2 - 1.5 g/cc
<b>Vapor Pressure (mm Hg)</b>	N.A.	<b>Vapor Density</b>	N.A.	<b>Evaporation Rate</b>	N.A.
<b>Solubility in Water</b>	Material is a stable slurry suspension of calcium hydroxide and magnesium hydroxide in water. pH=12.4@25°C				
<b>Appearance and Odor</b>	White low viscosity liquid, odorless				

### Section IV - Fire and Explosion Hazard Data

<b>Flash Point</b>	<b>LEL/UEL</b>	<b>Flammable Limits</b>	<b>Extinguishing Media</b>
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 if material becomes dry.

### Section V - Reactivity Data

<b>Stability</b>	<b>Conditions to Avoid (stability - related)</b>
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 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 of mist or dried dust 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 mist. Collect by mop or other suitable method.

Place in steel container.

**Waste Disposal Method**

Add water to dilute 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 away from acids or other incompatible substances.

Do not store or ship in aluminum containers.

**Other Precautions**

Avoid eye contact and breathing dust if material becomes dry.

**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 to mist or dust. (42 CFR)

Ventilation	Local Exhaust N.A.	Special	Do not dispose of dust with combustible materials.
	Mechanical (General) N.A.	Other	

**Protective Gloves**

Clean dry rubber 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