

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 CRS45

Ca(OH)₂ (High solids calcium hydroxide 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

11/18/2004

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 ³	5 mg/m ³	7340 mg/kg	38-70%
Magnesium hydroxide	1309-42-8	Brucite	N.A.	N.A.		<5%
Silicon dioxide	14808-60-7	Quartz	*see note below	0.1 mg/m ³	4 mg/m ³	<2%
Sodium hydroxide	1310-73-2	Caustic soda	2 mg/m ³	2 mg/m ³	2 mg/m ³	<1%

*SiO₂ OSHA PEL: 10 mg/m³ divided by (the percentage of silica in the dust plus 2) (respirable)

Section III - Physical/Chemical Characteristics

Boiling Point	100 °C	Melting Point	dec. 580 °C	Specific Gravity	1.3 - 1.5 g/cc
Vapor Pressure (mm Hg)	N.A.	Vapor Density	N.A.	Evaporation Rate	N.A.
Solubility in Water	Material is a stable suspension of calcium hydroxide in water. pH=12.4 - 13.0 @25°C				
Appearance and Odor	White low viscosity liquid, 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 if material becomes dry.

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 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? SiO₂ NTP/IARC Monographs? SiO₂

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 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. I

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