

# MATERIAL SAFETY DATA SHEET

## LIME

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** LIME

**APPLICATIONS:** Oil well drilling fluid additive. Calcium source.

**EMERGENCY TELEPHONE:** 281-561-1600

**SUPPLIER:** Supplied by a Business Unit of  
M-I L.L.C.  
P.O. Box 42842, Houston, Texas 77242-2842  
See cover sheet for local supplier.

**TELEPHONE:** 281-561-1509

**FAX:** 281-561-7240

**CONTACT PERSON:** Sam Hoskin - Manager, Occupational Health

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
Calcium hydroxide	1305-62-0	100 %		

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

This product is a/an white powder. Slippery when wet. Dike and contain spills. Keep out of sewers and waterways. No significant immediate hazards for emergency response personnel are known.

#### ACUTE EFFECTS:

#### HEALTH HAZARDS, GENERAL:

Particulates may cause mechanical irritation to the eyes, nose, throat and lungs. Particulate inhalation may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma. Dermatitis and asthma may result from short contact periods.

**INHALATION:** Irritating to the respiratory tract if inhaled.

**INGESTION:** Harmful if swallowed. May cause gastric distress, nausea and vomiting if ingested.

**SKIN:** Severely irritating to the skin.

**EYES:** Severely irritating to the eyes. May cause severe eye injury.

#### CHRONIC EFFECTS:

#### CARCINOGENICITY:

IARC: Not listed. OSHA: Not regulated. NTP: Not listed.

## 10. STABILITY AND REACTIVITY

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**STABILITY:** Normally stable.

**CONDITIONS TO AVOID:**  
Avoid heat.

**HAZARDOUS POLYMERIZATION:**  
Will not polymerize.

**POLYMERIZATION DESCRIPTION:**  
Not relevant.

**MATERIALS TO AVOID:**  
Strong acids. Maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
No specific hazardous decomposition products noted.

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## 11. TOXICOLOGICAL INFORMATION

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**Component:** Calcium hydroxide

**TOXICOLOGICAL DATA:**  
Corrosive effects. Eye. Rabbit. 10 mg - Severe Irritation

**TOXIC DOSE - LD 50:** 7340 mg/kg (oral rat)

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## 12. ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:**  
Contact M-I Environmental Affairs for ecological information.

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## 13. DISPOSAL CONSIDERATIONS

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**WASTE MANAGEMENT:**  
This product, should it become a waste, may be a hazardous waste by U.S. RCRA criteria. Contact M-I's Environmental Affairs Department for more information.  
Empty containers retain residues. All labeled precautions must be observed.

**DISPOSAL METHODS:**  
Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.

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## 14. TRANSPORT INFORMATION

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**PRODUCT RQ:** N/A

**U.S. DOT:**  
**U.S. DOT CLASS:** Not regulated.

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**CANADIAN TRANSPORT:**  
**TDGR CLASS:** Not regulated.

**SEA TRANSPORT:**  
**IMDG CLASS:** Not regulated.

**AIR TRANSPORT:**  
**ICAO CLASS:** Not regulated.

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## 15. REGULATORY INFORMATION

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### REGULATORY STATUS OF INGREDIENTS:

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
Calcium hydroxide	1305-62-0	Yes	No	No	No	Yes

### US FEDERAL REGULATIONS:

**WASTE CLASSIFICATION:**

May be a hazardous waste by RCRA criteria. Consult M-I Environmental Affairs before disposal.

### REGULATORY STATUS:

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA 311 Categories:

1: Immediate (Acute) Health Effects.

The components of this product are listed on or are exempt from the following international chemical registries:

TSCA (U.S.)  
DSL (Canada)  
EINECS (Europe)

### STATE REGULATIONS:

**STATE REGULATORY STATUS:**

This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

Illinois Right-to-Know.  
New Jersey Right-to-Know.  
Pennsylvania Right-to-Know.

PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

### CANADIAN REGULATIONS:

**LABELS FOR SUPPLY:**



### REGULATORY STATUS:

This Material Safety Data Sheet has been prepared in compliance with the Controlled Product Regulations.

Canadian WHMIS Classification: D2B - Other Toxic Effects: Toxic Material

## 16. OTHER INFORMATION

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**NPCA HMIS HAZARD INDEX:** 2 Moderate Hazard  
**FLAMMABILITY:** 0 Minimal Hazard  
**REACTIVITY:** 0 Minimal Hazard  
**NPCA HMIS PERS. PROTECT. INDEX:** E - Safety Glasses, Gloves, Dust Respirator

**USER NOTES:** N/A = Not applicable N/D = Not determined

**INFORMATION SOURCES:** OSHA Permissible Exposure Limits, 29 CFR 1910, Subpart Z, Section 1910.1000, Air Contaminants.

ACGIH Threshold Limit Values and Biological Exposure Indices for Chemical Substances and Physical Agents (latest edition).

Sax's Dangerous Properties of Industrial Materials, 9th ed., Lewis, R.J. Sr., (ed.), VNR, New York, New York, (1997).  
Product information provided by the commercial vendor(s).

**PREPARED BY:** Sam Hoskin

**REVISION No./Repl. MSDS of:** 1 / February 1993

**MSDS STATUS:** Approved.

**DATE:** August 27, 1998

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### DISCLAIMER:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.