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## I. MANUFACTURER'S INFORMATION:

Manufacturer: BAKER HUGHES INTEQ	HMIS Hazard Rating and Key	Health	1	Minimal	0
Product Name: MIL-LIME		Flammability	0	Slight	1
Chemical Name: CALCIUM HYDROXIDE		Reactivity	0	Moderate	2
Chemical Description: LIME		Personal Protection	H	Serious	3
				Severe	4

Proper Shipping Description: DRILLING FLUID COMPOUND, N.O.S.

Hazard Class: NOT REGULATED UN Number: NA Hazard Label: NA DOT Response Guide: NA

Transportation Note: NA

## II. HAZARD IDENTIFICATION:

<b>Hazardous Components:</b>	<b>ACGIH TLV:</b>	<b>OSHA PEL:</b>	<b>%</b>	<b>CAS Number:</b>	<b>Product RQ:</b>
CALCIUM HYDROXIDE	5 MG/M3 T	5 MG/M3 T	100	1305-62-0	NA

### Hazards Associated with Product Use

	Yes		Yes		Yes		Yes
Combustible Liquid		Flammable Material		Pyrophoric Material		Explosive Material	
Unstable Material		Water Reactive Material		Oxidizer		Organic Peroxide	
Corrosive Material		Compressed Gas		Irritant	X	Nuisance Particulate	
Skin Hazard	X	Eye Hazard	X	Toxic Agent		Highly Toxic Agent	
Sensitizer		Carcinogen		Reproductive Toxin		Blood Toxin	
Nervous System Toxin		Lung Toxin		Liver Toxin		Kidney Toxin	

### Community Right-to-Know (SARA Title III Section 311-312)

Fire: Sudden Release Of Pressure: Reactivity: Immediate (Acute): X Delayed (Chronic):

## III. PHYSICAL DATA:

Boiling Point (F): 1065.6 Decomp	Vapor Pressure (mmHg): NA	pH: 12.4
Melting Point(F): 1076 Dehydrate	Vapor Density (Air=1): NA	Specific Gravity: 2.2-2.4
Freezing Point(F): NA	Solubility In Water: MODERATE	Percent Volatile By Volume (%): NA
Odor Threshold: ODORLESS	Appearance And Odor: GREY-WHITE, ODORLESS	Evaporation Rate (____=1): NA
Material Is: PURE SOLID	Coefficient of Water/Oil Distribution: PARTIALLY SOLUBLE IN WATER	

## IV. FIRE & EXPLOSION HAZARD DATA:

Flashpoint (F): NA	Auto Ignition Temperature (F): NA	Explosive Limit - Lower: NA	Upper: NA
Extinguishing Media: Water: X	CO2: X	Dry Chemical: X	Foam: X Fog: X

Hazardous Combustion Products:

UPON DECOMPOSITION, PRODUCT MAY FORM CALCIUM OXIDE AND CARBON MONOXIDE.

Fire Fighting Procedures:

APPROPRIATE FIRE FIGHTING MEDIA AND SELF-CONTAINED BREATHING APPARATUS DURING A FIRE.

Unusual Fire and Explosion Hazards:

CALCIUM HYDROXIDE IS A STRONGLY ALKALINE MATERIAL WHICH IS INCOMPATIBLE WITH ACIDIC MATERIALS. IT FORMS SALTS WITH NITROPARAFFINS IN THE PRESENCE OF WATER WHICH ARE EXPLOSIVE WHEN DRIED. IT CAN CAUSE THE EXPLOSIVE DECOMPOSITION OF MALEIC ANHYDRIDE.

## V. REACTIVITY DATA:

Chemically Stable: Yes: X No:	If no, Under Which Conditions? NA
Incompatibility (Materials to Avoid):	AVOID MOISTURE AND ACIDS.

Hazardous Decomposition on Byproducts: PRODUCT WILL NOT READILY DECOMPOSE.

Hazardous Polymerization	May Occur:	Will Not Occur: X	Conditions to Avoid: NA
ND - Not Determined	NA - Not Applicable	T - Total Dust	R - Respirable Fraction C - Ceiling Limit

MIL-LIME IS A TRADEMARK OF BAKER HUGHES INTEQ.

**VI. HEALTH HAZARD INFORMATION:**

Primary Exposure Route:	Skin Contact: X	Skin Absorption:	Eye Contact: X	Inhalation: X	Ingestion:
Product Carcinogenicity -	NTP: NO	IARC: NO			

## Acute Effects of Overexposure:

PRODUCT MAY IRRITATE SKIN, MUCOUS MEMBRANES AND RESPIRATORY TRACT. PRODUCT IS A SEVERE EYE IRRITANT. THE DUST CAUSES DERMATITIS AND IS MILDLY TOXIC BY INGESTION.

## Chronic Effects of Overexposure:

MAY SENSITIZE SUSCEPTIBLE INDIVIDUALS AFTER REPEATED OR PROLONGED EXPOSURES. MAY AGGRAVATE AN EXISTING DERMATITIS.

**VII. EMERGENCY AND FIRST AID INSTRUCTIONS:**

Eyes:	HOLD EYELIDS APART AND FLUSH WITH WATER FOR AT LEAST FIFTEEN MINUTES. REPEAT IF IRRITATION PERSISTS. CONTACT A PHYSICIAN.
Skin:	FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER THEN WASH THOROUGHLY WITH MILD SOAP.
Ingestion:	IF PERSON IS CONSCIOUS, GIVE LARGE QUANTITIES OF WATER IMMEDIATELY TO DILUTE. SEEK MEDICAL ADVICE.
Inhalation:	REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

**VIII. ENVIRONMENTAL PROTECTION PROCEDURES:**

## Spill Response:

WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN THE SPILL IN A DRY AREA. SWEEP INTO A SUITABLE CONTAINER FOR RECYCLING OR DISPOSAL. NEUTRALIZE RESIDUES AND DILUTE WITH COPIUS AMOUNTS OF WATER. PLACE WASTES IN A SUITABLE CONTAINER.

## Waste Disposal Method:

AS A WASTE, PRODUCT IS NOT HAZARDOUS ACCORDING TO RCRA CRITERIA OR LISTING. REEVALUATION OF STATUS MAY BE REQUIRED HOWEVER DEPENDING ON PRODUCT USES, REACTIONS, MIXTURES OR WORK PROCESSES. COMPLY WITH LOCAL, STATE AND NATIONAL REGULATIONS.

## Handling:

WARNING! PRODUCT IS AN IRRITANT. AVOID CONTACT WITH SKIN, EYES, MUCOUS MEMBRANES AND RESPIRATORY TRACT. AVOID BREATHING DUSTS. WEAR PROPER PROTECTIVE EQUIPMENT.

## Storage:

STORE IN A DRY LOCATION AWAY FROM ACIDS. KEEP PRODUCT DRY AND USE WITH ADEQUATE VENTILATION. DO NOT REUSE EMPTY CONTAINERS FOR ANY PURPOSE BEFORE DISPOSAL.

**IX. OCCUPATIONAL CONTROL MEASURES:**

Respiratory Protection:	WEAR AN APPROVED PARTICULATE RESPIRATOR IF RECOMMENDED EXPOSURE LIMITS MAY BE EXCEEDED.
Ventilation:	SUPPLY LOCAL EXHAUST OR MECHANICAL VENTILATION TO EXHAUST DUSTS BELOW RECOMMENDED EXPOSURE LIMITS.
Clothing:	WEAR LONG SLEEVE CLOTHING AND AN APRON OR COVERALLS FOR PROTECTION.
Eyewear:	WEAR CHEMICAL SAFETY GOGGLES WITH AN OPTIONAL FACE SHIELD .
Gloves:	USE BUTYL RUBBER OR NEOPRENE GLOVES TO PREVENT SKIN CONTACT.
Footwear:	USE NORMAL SAFETY BOOTS.

**X. ADDITIONAL INFORMATION:**

## DISCLAIMER

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Prepared By: Jim Rushing

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ND - Not Determined

NA - Not Applicable

&gt; - Greater Than

&lt; - Less Than

C- Ceiling Limit