



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: Lime (Hydrated)
PRODUCT USE: Oil well fluid additive
CHEMICAL FAMILY: Calcium hydroxide

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: E
WORK PLACE HAZARD: Corrosive

TRANSPORTATION OF DANGEROUS GOODS (TDG)

SHIPPING NAME: Not Regulated Under TDG
TDG CLASSIFICATION: N/A
UN NUMBER (PIN): N/A
PACKING GROUP: N/A

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>CAS NUMBER</u>	<u>LD₍₅₀₎ Oral-Rat</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Calcium Hydroxide	95	1305-62-0	7.34 g/kg		

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN EYE CONTACT INHALATION INGESTION

EYE CONTACT: Direct contact with solid or aqueous solutions may cause conjunctival edema and corneal destruction; can lead to and may cause blindness

SKIN CONTACT: Can penetrate the skin slowly, producing soft necrotic, deeply penetrating areas on contact the extent of damage depends on duration of contact

INGESTION: Corrosive if ingested. Seek medical attention

INHALATION: Low concentrations may cause sore throat, coughing, choking, dizziness, weakness and variable symptoms of headaches. Intense exposure may lead to tightness in the chest and delayed pulmonary edema

SECTION IV: FIRST AID MEASURES



MATERIAL SAFETY DATA SHEET

- SKIN CONTACT:** Wash skin with soap and water. Do not use exposed clothing until thoroughly cleaned. Seek medical attention.
- EYE CONTACT:** If splashed in eyes, flush with water for 15min. /until irritation subsides. Seek medical attention.
- INGESTION:** Seek medical attention. Do not induce vomiting. Give water/milk followed by juice/diluted vinegar.
- INHALATION:** Remove patient to fresh air. Apply artificial respiration as required. Contact physician immediately.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Greyish white powder, odourless
SPECIFIC GRAVITY:	2.4
BOILING POINT (°C):	285°C
MELTING POINT (°C):	N/A
SOLUBILITY IN WATER:	N/A
pH:	12 Strong Alkaline
PERCENT VOLATILE BY VOLUME:	N/A
EVAPORATION RATE:	N/A
VAPOUR PRESSURE (mm Hg):	N/A
BULK DENSITY (lb/ft³):	N/A

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	N/A
FLAMMABLE LIMITS:	Lower : N/A Upper : N/A
EXTINGUISHING MEDIA:	Carbon dioxide, or dry powder, or water.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained respirators required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None Known

SECTION VII: REACTIVITY DATA

STABILITY:	Stable [XX]	Unstable []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Maleic Anhydrite, Nitroparaffins, nitromethane, nitroethane, and nitropropane all can be explosive with calcium hydroxide.	



MATERIAL SAFETY DATA SHEET

CONDITIONS OF REACTIVITY:	Phosphorous, when boiled with alkaline hydroxides, yield mixed phosphines which can ignite spontaneously in air.	
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated above 580C it will form a corrosive solution	
HAZARDOUS POLYMERIZATION:	Will Not Occur [XX]	May Occur []

VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Approved filter mask should be used if dust is created.
VENTILATION:	Suggested local mechanical exhaust to dust collectors.
PROTECTIVE GLOVES:	Gauntlet type work gloves
EYE PROTECTION:	Suggest tight fitting goggles.
OTHER PROTECTIVE EQUIPMENT (Specify):	Ensure eye-wash station and emergency shower is available. All clothing should be worn to prevent dust or particles from contacting the skin

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid creating dust. Wash all equipment with large amounts of water or vinegar. Store in cool DRY well ventilated area out of the weather.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Ventilate area well and keep material away from organic material and or other incompatibles.

WASTE DISPOSAL METHOD

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the user to determine if contaminated material meets hazardous waste requirements.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE PRINTED:	March 28, 2007	BY:	MILLENNIUM TECHNOLOGIES LTD.
DATE MODIFIED:	February 2007	APPROVED BY:	
SUPERSEDES:	May 2004		
24 HOUR PHONE:	403-252-5904		