



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** Lime (Processed)  
**PRODUCT USE:** Oil Well Fluid Additive  
**CHEMICAL FAMILY:** Calcium Oxide

### WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

**WHMIS CLASSIFICATION:** Class E  
**WORK PLACE HAZARD:** Corrosive

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Not Dangerous Goods  
**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<sub>(50)</sub> Oral-Rat</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Calcium Oxide	96.4%	1305-78-8	N/A	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

## SECTION III: TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**  SKIN       EYE CONTACT       NHALATION       INGESTION

**EFFECTS OF OVEREXPOSURE:** If contacted with tissues which contain moisture, severe burns will result to the affected moist tissue.

**EYE CONTACT:** Will cause severe burning of eyes.

**SKIN CONTACT:** If skin is moist this product will cause severe burning and irritation to the affected skin.

**INGESTION:** Product ingestion may produce severe burns to the throat, oesophagus, and stomach lining.

**INHALATION:** The dust from this product will cause severe irritation and burns to the respiratory system. Chronic exposure may result in ulceration and/or perforation of the nasal sputum.

## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Wash with soap and running water for 15 minutes. If irritation/burning persists consult physician.



# MATERIAL SAFETY DATA SHEET

- EYE CONTACT:** Wash with running water for 15 minutes while holding eyelids open. Seek immediate medical attention or permanent damage may occur.
- INGESTION:** If ingested give three to four glasses of milk or water to dilute followed by a glass of fruit juice or dilute vinegar. DO NOT INDUCE VOMITING. Get immediate medical attention.
- INHALATION:** Remove patient to fresh air. If not breathing administer artificial respiration. Get immediate medical assistance.

## SECTION V: PHYSICAL DATA

<b>APPEARANCE AND ODOUR:</b>	Greyish White Powder; Odourless
<b>SPECIFIC GRAVITY:</b>	3.2-3.4
<b>BOILING POINT (°C):</b>	2850°C
<b>MELTING POINT (°C):</b>	N/A
<b>pH:</b>	>12
<b>SOLUBILITY IN WATER:</b>	Moderate
<b>PERCENT VOLATILE BY VOLUME:</b>	N/A
<b>EVAPORATION RATE:</b>	N/A
<b>VAPOUR PRESSURE (mm Hg):</b>	N/A
<b>VAPOUR DENSITY (Air = 1):</b>	N/A

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT:</b>	Not Flammable
<b>FLAMMABLE LIMITS:</b>	N/A
<b>EXTINGUISHING MEDIA:</b>	Use extinguishing media for surrounding fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Normal protection for fire fighting personnel.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None.

## SECTION VII: REACTIVITY DATA

<b>STABILITY:</b>	<b>Stable [XX]</b>	<b>Unstable [ ]</b>
<b>INCOMPATIBILITY (CONDITIONS TO AVOID):</b>	If material comes in contact with water or any substance containing water, intense heat is generated. It becomes corrosive after contact with water. It will react with acids.	
<b>CONDITIONS OF REACTIVITY:</b>	After contact with moisture or water.	



# MATERIAL SAFETY DATA SHEET

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**HAZARDOUS POLYMERIZATION:** Will Not Occur [XX] May Occur [ ]

## VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION** Approved filter mask should be worn if excessive dust is created.

**VENTILATION** Local exhaust as necessary to maintain airborne levels within prescribed limits.

**PROTECTIVE GLOVES** Rubber-avoid getting material inside.

**EYE PROTECTION** Tight fitting goggles should be worn.

**OTHER PROTECTIVE EQUIPMENT:** Long sleeved shirt with collar buttoned. Trousers with legs down over boots. Barrier creams on exposed skin. Suggest eye wash station and emergency chemical shower.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid creating dust. Keep containers away from contact with water or moisture. Keep product dry at all times. Avoid breathing dust. Avoid contact with eyes and skin. Wash all equipment with large amounts of water and or vinegar. Dry all equipment before reuse. Store in cool, dry, well-ventilated area out of direct contact with weather.

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

Keep spilled material away from organic materials and other incompatible materials.

### WASTE DISPOSAL METHOD

Wear protective clothing and safety gear. Carefully sweep up and pick up all material possible and place in proper metal containers for either reclamation of product or disposal according to local and provincial regulations. The remaining residue may be flushed into drain, using plenty of water for dilution. Large amounts may require neutralization with acid prior to washing with water.

## 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