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Date of Revision:	19-Apr-18
Revision No.:	2



Safety Data Sheet

Product Name:	HYDRATED LIME IN SLURRY FORM
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1. IDENTIFICATION

Identification of the substance:

- » Product identifier: Calcium Hydroxide Slurry
- » Other means of identification: Lime Slurry, Slaked Lime, Milk of Lime
- » Formula: $\text{Ca(OH)}_2 + \text{H}_2\text{O}$
- » Recommended use and restrictions on use: Water treatment, pH adjustment, acid gas absorption, etc.
- » NSF Max Usage Limit: 1210 mg/L

Company:

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2. HAZARD IDENTIFICATION

- » Classification: Eye Damage (Category 1)
Skin Irritation (Category 2)
Specific Target Organ Toxicity - Single Exposure (Category 3)

- » Hazard pictograms:



- » Signal word: Danger
- » Hazard statements: Causes skin irritation
Causes serious eye damage
May cause respiratory irritation

- » Precautionary statements:

Prevention

Avoid breathing mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves with eye and face protection.

Response

IF ON SKIN: Wash with plenty of water or use emergency shower. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call your local poison control centre.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call your local poison control centre.

Storage

Store in a well ventilated place. Keep container tightly closed.
Store in a secure area with controlled access.

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7. HANDLING AND STORAGE

Handling: Slurry will be extremely hot (~ 90 °C) when first produced. Avoid splashing. Avoid skin and eye contact.

Storage: Keep in leakproof vessels. Keep away from acids and incompatible substance. Keep out of reach of children.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure limits: Calcium Hydroxide - TWAEV = 5 mg/m³

Engineering controls: Use with adequate general or local exhaust ventilation.

Respiratory Protection: Not Applicable

Eye Protection: Use safety goggles. Contact lenses should not be worn.

Hand Protection: Use waterproof gloves.

Skin Protection: Cover body with suitable clothes (long sleeve shirts and trousers, waterproof/caustic resistant shoes).

9. PHYSICAL AND CHEMICAL PROPERTIES

- » Physical State: Liquid
- » Appearance: White
- » Odour: Odourless
- » Odour Threshold: Not Available
- » pH: 12.4 - 12.8 @ 1.600 mg/l (saturated solution)
- » Melting Point: Not Applicable
- » Boiling Point: 100 °C
- » Flash Point: Not Applicable
- » Evaporation Rate: Not Available
- » Flammability (solid or gas): Not Applicable
- » Explosive limits: Not Applicable
- » Vapour Pressure (+t°): Non Volatile
- » Vapour Density (air=ml): Non Volatile
- » Relative density: 1.150 to 1.250
- » Solubility: Not Applicable
- » Partition Coefficient (n-octanol/water): Not Available
- » Auto-ignition Temperature: Non Flammable
- » Decomposition Temperature: Not Available
- » Viscosity: Not Available

10. STABILITY AND REACTIVITY

- » Reactivity: Reacts with acids.
- » Stability: Will evolve water over time and become Calcium Hydroxide.
- » Possibility of hazardous reactions: Under normal conditions of use, hazardous reactions will not occur.
- » Decomposition temperature: 100 °C
- » Conditions to avoid: Vicinity to incompatible materials
- » Incompatible materials: Acids; reactive fluoridated, brominated or phosphorous compounds; reactive powdered metals; organic acid anydrides; nitro-organic compounds; interhalogenated compounds.
- » Hazardous decomposition products: None

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11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Skin, eye contact and ingestion
Delayed, Immediate and Chronic Effects:	This product contains trace amounts of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis, a serious lung disease.
Respiratory or Skin Sensitization:	This material is not known to cause sensitization
Germ cell Mutagenicity:	No data available.
Carcinogenicity:	This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed as "Carcinogenic to humans" (group 1) and "Known to be a Human Carcinogen" by NTP.
Reproductive toxicity:	No data available.
Numerical Measures of Toxicity:	Calcium Hydroxide: Oral (rat) LD ₅₀ : 7340 mg/kg
Symptoms related to the physical, chemical and toxicological characteristics:	Eye contact - irritation, intense tearing, burns and possible blindness Inhalation - No specific data Skin contact - blotches; itching Ingestion - sore throat, stomach aches, cramps, diarrhea, vomiting

12. ECOLOGICAL INFORMATION

Toxicity:	Alkaline substance that increases pH to 12.4
Persistence and Degradability:	Slurry will overtime evolve water to form Calcium Hydroxide which shall progressively be rendered soluble and shall recarbonate to form Calcium Carbonate (CaCO ₃). Calcium Carbonate is ecologically neutral.
Bioaccumulative Potential:	This product shows no bioaccumulation effect.
Mobility in Soil:	No information available for this product.
Other Adverse Effects:	Toxic effect on aquatic organisms due to pH change.

13. DISPOSAL CONSIDERATIONS

» Dispose in secure landfill or according to federal, provincial /state and local environmental regulations.

14. TRANSPORT INFORMATION

Classification:	TDG	Not regulated for ground transportation
	HMR	Not regulated for ground transportation
	TDG: Transportation of Dangerous Goods Regulation (CAN) HMR: Hazardous Materials Regulation (USA)	

15. REGULATORY INFORMATION

DSL:	All ingredients appear on the DSL.
WHMIS 1988:	D2B - Material causing other toxic effects E - Corrosive material

16. OTHER INFORMATION

Date of latest revision: 19-Apr-17

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