Date of Origin:	5-Dec-16
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Revision No.:	7





Safety Data Sheet

Product Name: HYDRATED LIME IN SLURRY FORM

1. IDENTIFICATION

Identification of the substance:

- » Product identifier:
- » Other means of identification:

NSF Max Usage Limit

- » Formula:
- » Recommended use and restrictions on use:
- Lime Slurry, Slaked Lime, Milk of Lime Ca $(OH)_2$ + H₂O Water treatment, pH adjustment, acid gas absorption, etc. 1210 mg/L

Calcium Hydroxide Slurry

NSF certification only valid for material produced from certified plants

Company:

»

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2. HAZARD IDENTIFICATION

Classification: Eye Damage (Category 1) » Skin Irritation (Category 2) Carcinogenicity (Category 1A) Specific Target Organ Toxicity - Single Exposure (Category 3) Hazard pictograms: » Signal word: Danger » Hazard statements: » Causes skin irritation Causes serious eye damage May cause cancer through inhalation May cause respiratory irritation Precautionary statements: » Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or 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



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lenses, if present and easy to do. Continue rinsing.
Immediately call your local poison control centre.
If exposed or concerned: Get medical attention.
Store in a well ventilated place. Keep container tightly closed.
Store in a secure area with controlled access.
Dispose of contents and container in accordance with local regulatory requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	% by Weight	C.A.S. No.:	Exposure Limits
Calcium Hydroxide	15-32	1305-62-0	5 mg/m ³
Silica-Crystalline Quartz	< 1	14808-60-7	0.1 mg/m ³

4. FIRST AID MEASURES

First-aid measures

- » Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing.
- » Eyes: Turn up eyelid and wash immediately and abundantly with lukewarm running water for at least 15 minutes. Do not try to neutralize. Do not rub eyes. Obtain medical attention immediately.
- » **Skin:** Remove contaminated clothes and rinse skin with plenty of water.
- » **Ingestion:** Drink water followed by diluted vinegar (1 part vinegar in 2 parts water) or fruit juice to neutralize. Do not induce vomiting. Obtain medical attention immediately.

Symptoms and effects

- » Inhalation: May cause respiratory irritation.
- » Eyes: Severe irritation, intense tearing, burns and possible blindness when exposure is prolonged.
- » Skin: Removes natural skin oils; blotches; itching
- » Ingestion: Sore throat, stomach aches, cramps, diarrhea, vomiting

Indication of immediate medical attention and special treatment needed

- » Specific treatments: No specific treatement.
- » Notes to physician: Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

»	Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
		Do not use halogenated compounds.
»	Specific hazards:	Non-flammable. Once water is evolved off, remaining Calcium
		Hydroxide will decompose itself into Calcium Oxide at 580 °C.
		Calcium Oxide is non-flammable, but will generate heat in presence
		of water or acids.
»	Special protective equipment:	Fire-fighters should wear appropriate protective equipment and
	• • • • • •	self-contained breathing apparatus (SCBA) with a full face-piece.
»	Special protective actions:	Avoid wetting if Calcium Oxide is formed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes.
Protective equipment:	Wear waterproof shoes, gloves and safety goggles. Cover body with
	long sleeved shirt and long pants.
Avoid inhalation of dust:	Avoid generating airborne dust. Wear approved respirator if dried product
	is present.



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Methods and materials for clean up:	Contain large quantities with suitable absorbant material and neutralize with acid.
Environmental precautions:	The substance may not be spilled without control into surface waters (increases pH).
Waste Disposal:	Dispose in secure landfill or according to federal, provicial/state and local envirionmental regulations.

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. Long-term storage in aluminumcontainers is not recommended.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure limits:	Calcium Hydroxide - TWAEV = 5 mg/m ³
	Silica-Crystalline Quartz - TWAEV = 0.1 mg/m ³
Engineering controls:	Use with adequate general or local exhaust ventilation.
Respiratory Protection:	If exposure limits are exceeded, an approved particulate respirator, or supplied air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.
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 resistent shoes).
Other:	A nearby eye wash and emergency shower are recommended.

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 (+tº)	Non Volatile	
»	Vapour Density (air=ml):	Non Volatile	
»	Relative density:	1.050 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	



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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 incompatable materials
»	Incompatable materials:	Acids; reactive fluoridated, brominated or phosphorous compounds; reactive powdered metals; organic acid anydrides; nitro-organic compounds; interhalogenated compounds.
»	Hazardous decomposition products:	None

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Delayed, Immediate and Chronic Effects:	Skin, eye contact and ingestion 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 Sensitaztion: Germ cell Mutagenicity: Carcinogenicity:	This material is not known to cause sensitization No data available. 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
	Crystalline Silica: Oral (rat) LD ₅₀ : >22500 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: Persistence and Degradability:	Alkaline substance that increases pH to 12.4 Slurry will overtime evolve water to form Calcium Hydoxide 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



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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:	D2A - Material causing other toxic effects
	E - Corrosive material

16. OTHER INFORMATION

Date of latest revision: 29-Nov-23

The information contained herein is believed to be accurate and reliable as of the date hereof. However, Sudbury Lime makes no representation, warranty or guarantee as to results or as to the information's accuracy, reliability or completeness. Sudbury Lime has no liability for any loss or damage that may result from the use of this information. Each user is responsible to review this information, satisfy itself as to the information's suitability and completeness, and circulate the information to its employees, customers and other appropriate third parties.

