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Revision No.:	7



Material Safety Data Sheet

Product Name:	HYDRATED LIME IN SLURRY FORM
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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Identification of the substance:

- » Chemical name: Calcium Hydroxide Slurry
- » Product name: Lime Slurry, Slaked Lime, Milk of Lime
- » Formula: $\text{Ca}(\text{OH})_2 + \text{H}_2\text{O}$
- » C.A.S Number: 1305-62-0
- » Molecular Weight: $\text{Ca}(\text{OH})_2$ 74.08
- » NSF Max Usage Limite 1210 mg/L

Company:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	% by Weight	C.A.S. No.:	Exposure Limits
Calcium Hydroxide	25-32	1305 -78-8	2 mg/m3

3. HAZARD CLASSIFICATION

- Irritant:** To eyes and mucous membranes and to the skin (in case of sweating)
- Flammability:** The product is not flammable or combustible.
- Explosive:** None
- Reactivity:** Reacts with strong acids.
- Symbols:** WHMIS Symbol : "E" Corrosive Material; "D2A" Material causing toxic effects.

4. FIRST AID SYMPTOMS AND TREATMENT

Effects

- » **Inhalation:** Not Applicable
- » **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

Treatment:

- » **Inhalation:** Not Applicable
- » **Eyes:** Turn up eyelid and wash immediately and abundantly with lukewarm running water for at

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- least 15 minutes. Do not try to neutralize. Obtain medical attention immediately.
- » **Skin:** Remove contaminated clothes and rinse area 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.

5. FIRE FIGHTING MEASURES

- » Classified as a non-flammable product.
- » 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.
- » Safety measures in case of fire: avoid wetting if Calcium Oxide is formed, use appropriate extinguishing media to put out a surrounding fire.

6. ACCIDENT PREVENTION MEASURES

- Individual and collective precautions:** Avoid contact with skin and eyes; wear waterproof boots, gloves and full face shield with safety glasses: long sleeved shirt and long pants.
- Avoid inhalation of dust:** Wear approved respirator if dried product is present.
- Cleaning methods (Leaks & Spills)** Contain large quantities with suitable material and neutralize with acid.
- Precautions for the Protection of the Environment:** The substance may not be spilled without control into surface waters (increases pH).
- Waste Disposal:** Dispose in secure landfill or according to federal, provincial/state and local environmental regulations.

7. HANDLING AND STORAGE

- Handling:** Slurry will be extremely hot (~ 90° C) when first produced. Avoid splashing. Avoid skin and eye contact.
- Storage:** In leakproof vessels. Keep away from acids and incompatible substance. Keep out of reach of children.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Technical Values:** Occupational exposure standard = Not Applicable
- Respiratory Protection:** Not Applicable
- Eye Protection:** Use safety goggles or full face shield with safety glasses.
- 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
- » Odour & Appearance: Odourless, white solution
- » pH: 12.5 - 12.8 at a concentration of 1.600 mg/l (saturated solution)
- » Melting Point: Not Applicable
- » Boiling Point: 100° Celcius
- » Flash Point: Non Flammable
- » Autoignition t°: Non Flammable
- » Inflammability Limits: None
- » Explosion Risk: None
- » Vapour Pressure (+t°): Non Volatile
- » Vapour Density (air=ml): Non Volatile
- » Solubility: Not Applicable

10. STABILITY AND REACTIVITY

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- » Stability: Will evolve water over time and become Calcium Hydroxide.
- » Decomposition temperature: 100° C.
- » Reactivity: Reacts with acids.
- » Conditions to avoid: Vicinity to incompatible materials
- » Incompatible materials: Acids; reactive fluoridated, brominated or phosphorous compounds; reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds.
- » Hazardous decomposition products; None

11. TOXICOLOGICAL INFORMATION

Toxicity: Non-toxic substance.
Exposure Limits: TWAEV = 5 mg/ M³
Other: No reported Carcinogenicity, Reproductive Effects, Teratogenicity or Mutagenicity

12. ECOLOGICAL INFORMATION

- » Alkaline substance that increases pH to 12.5
- » Slurry will overtime evolve water to form Calcium Hydroxide which shall progressively be rendered soluble and shall recarbonate to form Calcium Carbonate (CaCO³).
- » Calcium Carbonate is ecologically neutral.
- » Uncontrolled spillage in surface waters should be avoided since the increase in pH could be detrimental to fish.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

Symbol: E Corrosive Material
D2A Material causing other toxic effects
Risk Phases: Risk of serious damage to the eyes.
Safety Phases: Keep out of reach of children.
Avoid contact with skin.
Avoid contact with eyes.
In case of contact with eyes, rinse immediately with water for at least 15 minutes.

16. MISCELLANEOUS INFORMATION

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.