


Safety Data Sheet

Section 1. Identification	
Product Identifier	Calcium Hydroxide (Hydrated Lime) Version: 7 Effective Date: 25 January 2021
Other Means Of Identification	None
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Recommended Use And Restrictions On Use	Industrial Applications. No Restrictions
Product Family	Inorganic Base
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
Hazard Classification	
Health Hazards	Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 1 Specific Target Organ Toxicity (single exposure) – Category 3
Environmental Hazards	Acute Aquatic Toxicity – Category 3
Signal Word	Danger
Hazard Statement	May cause severe skin burns and eye damage. Toxic to aquatic
Precautionary Prevention Statement	Wash hands thoroughly after handling. Wear protective gloves. Wear eye and face protection. Avoid breathing dust. Use only outdoors or in a well ventilated area. Avoid release to the environment.



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Precautionary Response Statement	<p>IF ON SKIN: Wash with plenty water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>Call a doctor if you feel unwell.</p> <p>Specific Treatment: do not induce vomiting unless directed by medical personnel.</p>
Precautionary Storage Statement	Store in a well ventilated place. Keep container tightly closed and locked up.
Precautionary Disposal Statement	Dispose of contents / container in accordance with local regulations
Other Hazards	None

Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Calcium hydroxide	Hydrated lime	1305-62-0	99-100

Section 4. First-Aid Measures

Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do NOT induce vomiting. Lay victim on side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Strongly alkaline. Causes burns. May cause permanent damage to eyes.
Immediate Medical Attention and Special Treatment	If in eye or on skin rinse with running water for several minutes. Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice. If burns is presented, treat as a thermal burn after decontamination.

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Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire. Do not use water jet.
Hazardous Combustion Products	Caustic fumes of calcium oxide.
Specific Hazards Arising From the Product	Corrosive to metals and skin.
Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves, coveralls, chemical resistant footwear, safety glasses. Evacuate all unnecessary personnel. Isolate area. Sweep or scoop spilt material.
Environmental Precautions	Do not allow spilt material to enter sewers and surface watercourses.
Methods and Materials for containment and Clean Up	Isolate area. Sweep, scoop or vacuum up spilt material. Take care not to generate dust. Place material in a suitable container for disposal. Wash area with water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care – Corrosive material. Avoid contact with eyes, skin and clothing. Empty containers may contain hazardous residues.
Conditions For Safe Storage	Store in a cool dry place. Keep containers closed when not in use. Protect containers from physical damage. Store away from incompatible materials.

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Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Calcium hydroxide	5 mg/m ³ ACGIH			
	* Immediately Dangerous to Life and Health			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Use in well ventilated area. Ensure eye wash station and safety shower are available.			
Individual Protective Measures				
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resistant coveralls and gloves			
Respiratory Protection	Air purifying respirator fitted with HEPA filters should be worn if exposure limits are exceeded.			

Section 9. Physical and Chemical Properties	
Appearance	White, crystals or powder.
Odour	Odourless
Odour Threshold	Not applicable
pH	12.4 (saturated solution)
Flash Point	Not applicable
Boiling Point and Boiling Range	Decomposes
Melting Point and Freezing Point	580 °C
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper and Lower flammability or Explosive Limits	No data
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Relative Density	2.24
Solubility	0.185 g / 100 cc @ 0 °C
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	Not applicable
Decomposition Temperature	No data

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Viscosity	No data
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Section 10. Stability and Reactivity	
Reactivity	Reacts with acids. Corrosive to metals.
Chemical Stability	Stable. Readily absorbs carbon dioxide from the air to form calcium Carbonate.
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Moisture.
Incompatible Materials	Maleic anhydride. Nitromethane and similar nitro compounds. Phosphorus. Acids.
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium hydroxide	7.34g/kg (Rat)		
Likely Routes of Exposure			
Skin:	Can cause severe chemical burns with blistering. Repeated contact can cause cumulative dermatitis.		
Eyes:	Can cause redness, tearing, pain. May induce ulceration of the corneal epithelium, severe eye damage causing blindness.		
Inhalation:	Causes irritation to the respiratory tract. Can cause chemical bronchitis. Can cause coughing and shortness of breath.		
Ingestion:	Ingestion can cause severe irritation or chemical burns to the mouth, throat, oesophagus and stomach. Oesophageal perforation may occur, leading to a fall in blood pressure and severe pain. Other symptoms may include pain, vomiting, diarrhoea and collapse.		
Acute Toxicity Estimates (ATE)	Not classified		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity	Not classified		



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STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified
Skin Corrosion / Irritation	corrosive
Serious Eye Damage / Irritation	corrosive
Respiratory or Skin Sensitization	Not classified
Carcinogenicity	Not listed.
Reproductive Toxicity	
- Sexual Function and Fertility	Not classified
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	None known

Section 12. Ecological Information

Ecotoxicity	LC50: 160 mg/L (Gambusia affinis)
Persistence and Degradability	Will not persist
Bioaccumulative Potential	This material is not expected to bioaccumulate.
Biodegradability	No data
Mobility in Soil	Not available
Other Adverse Effects	None known

Section 13. Disposal Considerations

Disposal Considerations	Dispose of in accordance with local, provincial and federal regulations.
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Section 14. Transport Information

UN Number	Not applicable
UN Proper Shipping	Not applicable
Transport Hazard Class(es)	Not applicable



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Packaging Group	Not applicable
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information

Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information

NFPA Rating	Health-3/ Flammability-0/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-3/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	27 September, 2012
Date of Latest Revision:	25 January 2021

Disclaimer

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