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Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Section 1. Identification		
Product Name Hydrated Lime	Distributor Mintek Resources, Inc. Beavercreek, OH 45431	Telephone 937-431-0218 Office 937-431-1305 Fax 800-255-3924 ChemTel Inc. (MIS8507735)
Chemical Name Calcium Hydroxide		
Uses Soil Stabilization, Fixation, Neutralization, Desulphurization, Chemicals, Agriculture, Cement, Water Treatment, Steel Flux		

SECTION 2. HAZARDS IDENTIFICATION	
Classification of the substance or mixture	
 GHS08 Health Hazard	 GHS05 Corrosion
Signal word Danger	
Hazard-determining components of labeling Calcium Oxide, Calcium Carbonate, Calcium Hydroxide	
Hazard Statements	
H303 May be harmful if swallowed	
H335 May cause respiratory irritation	
H373 May Cause damage to organs (lungs) through repeated or prolonged exposure	

Precautionary statements

P101 If medical advice is needed, have product container or label at hand
 P102 Keep out of reach of children
 P260 Do not breathe dust
 P264 Wash hands thoroughly after handling
 P270 Do not eat, drink when using this product
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P284 Wear respiratory protection

Response

P303 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 P304 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P305 If in eyes: Rinse cautiously with water for several minutes

Section 3. Composition

Component	Formula	% Wt.	CAS No.	PEL
Calcium Hydroxide	Ca(OH) ₂	>90	1305-62-0	5 mg/m ³
Crystalline Silica Quartz	SiO ₂	<1%	14808-60-7	10 mg/m ³ respirable

SECTION 4. First-Aid Measures
Effects:

Inhalation: **Acute:** May cause respiratory irritation. **Chronic:** Respiratory tract irritation, coughing, burning sensation.

Eyes: **Acute:** Causes serious eye damage. **Chronic:** Pain, watering, redness.

Skin: **Acute:** Causes skin irritation. **Chronic:** Pain or irritation, redness, blistering may occur

Ingestion: **Acute:** No known effects. **Chronic:** Burning sensation, abdominal cramps and pain, vomiting.

Treatments:

Inhalation: Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. Pull back the eyelid to make sure all the lime dust has been washed out. Seek medical attention immediately. Do not rub eyes.

Skin: Flush exposed area with large amounts of water. Seek medical attention immediately.

Ingestion: Give large quantities of water or fruit juice. Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.

SECTION 5. Fire-Fighting Measures

Flash Point: Non-flammable

Autoignition Temperature: Non-flammable

Inflammability Limits: None, Non combustible solid, but will support combustion by liberation of oxygen

Explosion Risk: None by itself, but heat produced by reaction with strong acids can generate steam and pressure

Hazardous Combustion Products: Decomposes to produce calcium oxide (CaO), which can react with water to produce steam and pressure

Extinguishing Media: Use dry chemical fire extinguisher. Do not use water or halogenated compounds, except that large amounts of water may be used to deluge small quantities of lime kiln dust. Use appropriate extinguishing media for surrounding fire conditions.

Fire Fighting Instructions: Keep personnel away from and upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (self-contained breathing apparatus).

SECTION 6. Accidental Release Measures

Individual and collective precautions: Avoid creating conditions which release dust – use mechanical vacuums to remove dust from work spaces.

Avoid inhalation of Dust: Wear respiratory protection – minimum NIOSH N-95 Dust Mask.

Cleaning methods (Leaks & Spills): Use personal protective equipment (eyes, skin and inhalation, see Section 8). Use dry methods (vacuuming, sweeping) to collect spilled materials. Avoid generating dust. For large spills, evacuate area downwind of clean-up area operations to minimize dust exposure. For small spills, store spilled materials in dry, sealed plastic or metal containers. Dust residue on surfaces may be washed with water.

Precautions for the protection of the environment: May not be released into surface waters without controls (increases pH).

Waste Disposal: Dispose according to federal, provincial/state and local environmental regulations.

SECTION 7. Handling and Storage

Handling: In open air or in ventilated places, avoid skin and eye contact, avoid creating airborne dust.

Storage: Store in dry places sheltered from humidity. Keep away from acids. Keep out of reach of children.

SECTION 8. Exposure Controls/Personal Protection

Exposure Limits:

Calcium Hydroxide: 5 mg/m³ (OSHA); 2 mg/m³ (ACGIH, O. Reg. 833);
 Silica (crystalline quartz): 2.5 mg/m³ (total dust), 0.8 mg/m³ (respirable) (OSHA); 0.5 mg/m³ (respirable – ACGIH);
 0.1 mg/m³ (O. Reg. 845)

Engineering Controls: Use ventilation and dust collection to control exposure to below applicable limits.

Respiratory Protection: Wear NIOSH N-95 Dust Mask.

Eye Protection: Eye protection (chemical goggles, safety glasses and/or face shield) should be worn where there is a risk of lime exposure. Contact lenses should not be worn when working with lime products.

Hand Protection: Use clean dry gloves.

Skin Protection: Cover body with suitable clothes (long sleeves shirts and trousers). Use over the ankle waterproof caustic resistant footwear.

SECTION 9. Physical and Chemical Properties

Appearance:	Solid, white/tan/gray powder/granular
Odor:	Odorless
Odor Threshold:	NA
pH:	12.4 pH graduated solution at 25° C
Melting Point:	2570° C
Boiling Point:	2850° C
Flash Point:	NA
Evaporation Rate:	NA
Flammability:	NA
Upper/Lower Flammability	NA
Vapor Pressure (+t°)	Non volatile.
Vapor Density (air=ml):	Non volatile.
Relative Density:	700-900 kg/ m ³
Solubility in Water:	0.165g/100 g
Partition coefficient:	NA
Auto-Ignition Temperature:	NA
Decomposition Temperature:	NA
Viscosity:	NA

SECTION 10. Stability and Reactivity

Stability:	The product is stable.
Decomposition temperature:	None.
Reactivity:	No specific test data related to reactivity available for this product.
Conditions to avoid:	Vicinity of incompatible materials.
Incompatible materials:	Acids; reactive fluoridated, brominated or phosphorous compounds; aluminum (may form hydrogen gas), reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds.
Hazardous decomposition products:	None

SECTION 11. Toxicological Information

Toxicity:	This product is not listed by MSA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group 1) carcinogenic to humans when inhaled in the form of quartz or cristobalite. No reported Carcinogenicity, Reproductive Effects, Teratogenicity or Mutagenicity.
Exposure Limits:	Refer to Section 8.
Irritancy:	Can cause severe irritation of eyes, skin, respiratory tract and gastrointestinal tract.
Chronic Exposure:	Inhalation of silica can cause a chronic lung disorder, silicosis.

SECTION 12. Ecological Information

Alkaline substance that increases pH to 12.4 in a saturated water solution at 25°C.
Calcium hydroxide gradually reacts with CO₂ in air to form calcium carbonate (CaCO₃).
Calcium carbonate is ecologically neutral.
Uncontrolled spillage in surface waters should be avoided since the increase pH could be detrimental to fish.
Harmful to aquatic life in high concentration.

SECTION 13. Disposal Considerations

Dispose according to federal, provincial/state and local environmental regulations.

SECTION 14. Transportation Information

Classification: TDG: Not listed for ground transportation
HMR: Not listed for ground transportation

TDG: Transportation of Dangerous Goods Regulation (Canada)

HMR: Hazardous Materials Regulation (USA)

SECTION 15. Regulatory Information

Symbol: **WHMIS Rating**
D2A, E
NFPA RATING
HEALTH-3 SPECIFIC HAZARD – ALK FLASH POINTS-0 REACTIVITY-1
HMIS RATING
HEALTH-2 SPECIFIC HAZARD – ALK FLASH POINTS-0 REACTIVITY-1

SECTION 16. Other Information

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Calciment can be removed from vehicles using rags dampened with dilute vinegar. After applying dilute vinegar, vehicles (especially chrome surfaces) must be washed with water.

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