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 Previous Versions Obsolete

GREER LIME COMPANY
SAFETY DATA SHEET (SDS)

Section I – Product and Company Identification

Product Identification	Manufacturer	24-Hour Emergency Contact No.	Recommended Use
Hydrated Lime; Hydrate; Calcium Hydroxide, Ca(OH) ₂ CAS No: 1305-62-0	Greer Lime Company 1088 Germany Valley Limestone Road Riverton, WV 26814	In WV: (800) 344-5133 Outside WV: (800) 538-3100	Water and sewage treatment, manufacturing, acid neutralization, sterilization, manufacturing, etc.
		Telephone No. for Information (304) 567-2141	

Section II – Hazards Identification

Health Hazards	Skin Irritation (Category 2) Serious Eye Damage (Category 1) Respiratory Sensitization (Category 1B) Specific Target Organ Toxicity Single Exposure: Respiratory System (Category 3)
Pictograms	
Signal Word	Danger
Hazard Statements	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statements	Keep out of reach of children. Avoid breathing dust. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Wear protective gloves and eye protection. Wash exposed skin thoroughly after handling. Store product in a dry place. Do not handle until all safety precautions have been read and understood. Dispose of contents or containers in accordance with applicable regulations. IF ON SKIN: Wash exposed skin with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately. IF INHALED: Remove person to fresh air and keep at rest and comfortable. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If exposed and concerned; or if experiencing respiratory symptoms: Get medical advice.

Other Hazards not covered by GHS	None
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Section III – Composition / Information on Ingredients

INGREDIENTS (Specific Chemical Identity; Common Names)	CAS REGISTRY NO.	% By Weight (Approx)
Calcium Hydroxide (Ca(OH) ₂)	1305-62-0	>94
Calcium Oxide (CaO)	1305-78-8	<1
Magnesium Oxide (MgO)	1309-48-4	<2
Silicon Dioxide (SiO ₂), Amorphous	7631-86-9	<1
Silica (Si), Crystalline Quartz	14808-60-7	<0.1
Aluminum Oxide (Al ₂ O ₃)	1344-28-1	<0.3
Iron Oxide (Fe ₂ O ₃)	1309-37-1	<0.1

Section IV – First Aid Measures

Inhalation	Move to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.
Ingestion	Do NOT induce vomiting. Drink large quantities of water. Seek medical attention immediately.
Skin Contact	Remove excess material from skin and flush the affected area with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention immediately.
Eye Contact	Immediately flush eyes with large amounts of water for at least 15 minutes. Pull back the eyelid to make certain all foreign material has been washed out. Seek medical attention immediately.

Section V – Firefighting Measures

Extinguishing Method	Use dry chemical fire extinguisher or water
Special Firefighting Equipment and Precautions	Respirators may be necessary to prevent inhalation of fumes or vapors
Specific Hazards in Case of Fire	None, hydrated lime is not an explosion hazard

Section VI – Accidental Release Measures

Initial Actions to Be Taken	Ventilate the area around the accidental release and remove all unnecessary personnel.
Cleaning Methods	Use dry methods to collect large spills. Evacuate area down wind of clean-up operations to avoid dust exposure. Residual amounts can be flushed with large amounts of water or neutralized with a dilute vinegar solution.

Section VII – Handling and Storage

Waste Disposal Method	Dispose of product in accordance with Federal, State, and Local regulations.
Precautions to be Taken during Handling/Storage	Keep in tightly closed containers in a cool, dry, and well-ventilated location. Keep away from moisture. Store away from incompatible chemicals and acids.

Section VIII – Exposure Controls / Personal Protection

Respiratory Protection	NIOSH approved dust filter mask as minimal protection	
Ventilation	Local Exhaust	To maintain TLV and PEL
	Mechanical	To maintain TLV and PEL
	Special	None
	Other	None
Protective Gloves	Gauntlets cuff style	
Eye Protection	Shielded glasses or fitted goggles to reduce the chance of eye injury	
Other Protective Clothing	Clothing fully covering skin.	
Work / Hygienic Practices	Maintain dust exposure limits below TLV and PEL. If not possible, use respiratory protection. Avoid contact with eyes and skin. Wash thoroughly after handling. Wash clothing after contact.	

INGREDIENTS	OSHA PEL ⁽¹⁾	ACGIH TLV ⁽²⁾
Calcium Hydroxide (Ca(OH) ₂)	(T) 15 mg/m ³ (R) 5 mg/m ³	(T) 5 mg/m ³
Calcium Oxide (CaO)	(T) 5 mg/m ³	(T) 2 mg/m ³
Magnesium Oxide (MgO)	(T) 15 mg/m ³ (R) 5 mg/m ³	(F) 10 mg/m ³
Silicon Dioxide (SiO ₂), Amorphous	(T) [80 mg/m ³ / (%SiO ₂)]	(I) 10 mg/m ³ (R) 3 mg/m ³
Silica (Si), Crystalline Quartz	(T) [30 mg/m ³ / (SiO ₂ + 2)] (R) [10 mg/m ³ / (SiO ₂ + 2)]	(R) 0.05 mg/m ³
Aluminum Oxide (Al ₂ O ₃)	(T) 15 mg/m ³ (R) 5 mg/m ³	(T) 10 mg/m ³
Iron Oxide (Fe ₂ O ₃)	(T) 10 mg/m ³	(T) 5 mg/m ³

(T): Total; (R): Respirable; (I): Inhalable

- (1) OSHA PEL: Occupational Safety and Health Administration, Permissible Exposure Limit is the time weighted average exposure for an 8-hr work shift of a 40-hr workweek.
- (2) ACGIH TLV: American Conference of Governmental Industrial Hygienists, Threshold Limit Value is the time weighted average recommended concentration for an 8-hr work shift of a 40-hr workweek.

Section IX – Physical and Chemical Properties

Appearance	White powder
Odor and Threshold	None
pH	12.45 @ 25°C (in water at maximum solubility)
Melting Point	4,658 °F
Initial Boiling Point	5,162 °F
Flash Point	N/A
Evaporation Rate	N/A
Flammability	Product not flammable
Explosive Limits	No data available
Vapor Pressure	0.0 mm Hg
Vapor Density	N/A
Relative Density	2.3
Solubility	In water: slight, 0.2% @ 32 °F
Partition Coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available

Section X – Stability and Reactivity

Stability	Chemically stable, but reacts slowly with carbon dioxide to form calcium carbonate.
Incompatibility – Conditions to Avoid	Hydrated Lime should not be mixed or stored with the following materials due to the potential for violent reaction and release of heat: acids, reactive fluorinated compounds, reactive brominated compounds, reactive powdered metals, organic acid anhydrides, nitro-organic compounds, reactive phosphorous compounds, and other potentially reactive materials.
Hazardous Decomposition Products	Hydrated Lime will decompose at 1,076 °F to form calcium oxide and water.
Hazardous Polymerization	None

Section XI – Toxicological Information

Acute Effects	Skin Contact: May cause irritation or allergic reaction Eye Contact: May cause severe burning and irritation Inhalation: May cause lung irritation or distressed breathing
Chronic Effects	Hydrated Lime is not found to be toxic. It is not listed by MSHA, OSHA, or IARC as a carcinogen. This product may contain Crystalline Silica which has been classified as carcinogenic to humans when inhaled in the form of Quartz, Crystobalite, and/or Tridymite. Long-term exposure to crystalline silica may result in silicosis, lung cancer, or other respiratory diseases
Acute Toxicity	LD50 Oral – Rat 7,340 mg/kg IDLH – Humans 25 mg/m ³ (Crystobalite and Tridymite), 50 mg/m ³ (Quartz and Tripoli)

Section XII – Ecological Information

Ecotoxicity	Acute Aquatic Toxicity: LC50 – Water Flea (Daphnia magna) 48 hrs, 49.1 mg/L LC50 – Zambezi barbell (Clarias gariepinus) 96 hrs, 33.9 mg/L
Persistence and Degradability	No data available
Bioaccumulative Potential	This material shows no bioaccumulation potential.
Mobility in Soil	No data available
Other Adverse Effects	Due to the material's alkalinity, if released into water or moist soil will cause an increase in pH

Section XIII – Disposal Considerations

Dispose of unused material in accordance with the Federal, State, and Local disposal requirements.
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Section XIV – Transport Information

Hydrated Lime is not classified as a hazardous material by the Department of Transportation (DOT). Disposal of product may be subject to state, federal, or local laws and regulations.

Section XV – Regulatory Information

EPA, RCRA Hazardous Waste Classification (40CFR261)	Not Listed
EPA, RCRA Hazardous Waste Number (40CFR261.33)	Not Listed
EPA, CERCLA Hazardous Substance (40CFR261)	Not Listed
EPA, CERCLA Reportable Quantity (RQ)	Not Listed
EPA, SARA 311/312 Codes	Not Listed
EPA, SARA Toxic Chemical (40CFR372.65)	Not Listed
EPA, SARA EHS (Extremely Hazardous Substance (40CFR355)	Not Listed
EPA Threshold Planning Quantity (TPQ)	Not Listed
EPA, TSCA Inventory List	All Components Listed
OSHA, Air Contaminant (29CFR1910.1000, Table Z-1)	Not Listed
OSHA, Specifically Regulated Substance (29CFR1910)	Not Listed
MSHA	Not Listed
State Regulations – Consult state and local authorities for guidance	See Note
Canadian Environmental Protection Act, Domestic Substances List	Listed

Section XVI – Other Information

HMIS III Safety Rating	Health – 2; Flammability – 0; Physical Hazard – 1; Protective Equipment - E
Revision Information	This SDS was revised on 5/14/15. All previous versions are obsolete
WARNING	This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
CANADA - WHMIS	Classification D2A (Toxic) and Class E (Corrosive)
Disclaimer	The technical data presented herein is given as information only and is assumed to be reliable. Greer Lime Company assumes no responsibility for any inaccuracies or for any damage or injury that may occur during the use of this information.