GREER LIME COMPANY - MATERIAL SAFETY DATA SHEET OSHA Hazard Communication

CAS REGISTRY NO.	DATE REVISED		
CAS No. 1305-78-8	7/1/2010		
	Previous versions obsolete.		

Section I – Contact Information

MANUFACTURER	24 Hr Emergency Contact No.	HMIS III SAFETY RATING	
Greer Lime Company HC 78 Box 93A Riverton, West Virginia 26814	In WV: (800) 344-5133 Outside WV: (800) 538-3100 Telephone No. for Information:	Health - 3 Flammability - 0 Physical Hazard - 2 Protective Equip - E	
	(304) 296-1751		

Section II – Health Hazard Information

Routes of Entry	Inhalation? YES	Absorption Through Skin? YES	Ingestion (Swallowing)? YES	
Health Hazards	Acute	Corrosive to skin and eyes. C to mucus membranes and res	auses irritation and inflammation piratory passages.	
nealth nazarus	Chronic	Long-term exposure can cause perforation of nasal septum.	e irritation, ulceration, and	
Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?	
Calcium Oxide	NO	NO	NŐ	
Signs and Symptoms	Signs and Symptoms of Exposure		piratory tract.	
	Medical Conditions Generally Aggravated by Exposure		Respiratory Disease, Skin Conditions	

Section III – Composition / Information on Ingredients

INGREDIENTS (Specific Chemical Identity; Common Names)	CAS REGISTRY NO.	OSHA PEL ⁽¹⁾	ACGIH TLV ⁽²⁾	% By Weight (Approx)
Calcium Oxide (CaO)	1305-78-8	(T) 5 mg/m ³	(T) 2 mg/m ³	>94
Magnesium Oxide (MgO)	1309-48-4	(T) 15 mg/m ³ (R) 5 mg/m ³	(F) 10 mg/m ³	<3
Silicon Dioxide (SiO ₂), Amorphous	7631-86-9	(T) [80 mg/m ³ / (%SiO ₂)]	(I) 10 mg/m ³ (R) 3 mg/m ³	<1.5
Silica (Si), Crystalline Quartz	14808-60-7	$\begin{array}{c} (T) [30 \text{ mg/m}^3 / \\ (\text{SiO}_2 + 2)] \\ (R) [10 \text{ mg/m}^3 / \\ (\text{SiO}_2 + 2)] \end{array}$	(R) 0.05 mg/m ³	<1
Aluminum Oxide (Al ₂ O ₃)	1344-28-1	(T) 15 mg/m ³ (R) 5 mg/m ³	(T) 10 mg/m ³	<0.5
Iron Oxide (Fe ₂ O ₃)	1309-37-1	(T) 10 mg/m ³	(T) 5 mg/m ³	<0.2

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

(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.

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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 lime dust has been washed out. Seek medical attention immediately.

Section IV – First Aid Measures

Section V – Fire and Explosion Hazard Information

Flammable Limits	Burnt Lime is not combustible or flammable. However, Burnt Lime reacts violently with water, releasing sufficient heat to ignite combustible materials in certain cases.	
Flash Point	N/A	
Extinguishing Method	Use dry chemical fire extinguisher. Do not use water except in those cases that water may be used to deluge small amounts of Burnt Lime.	
Special Fire Fighting Procedures	Reaction with water may produce enough heat to ignite combustible materials.	
Unusual Fire and Explosion Hazards	Material may be an explosion hazard when wet and confined.	

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 spilled materials. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems recommended. Do not use water on material spills.	

Section VII – Precautions for Safe Handling / 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.

Respiratory Protection	NIOSH approved dust filter mask as minimal protection		
	Local Exhaust	To maintain TLV and PEL	
Ventilation	Mechanical	To maintain TLV and PEL	
ventilation	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.		
	Maintain dust exposure limits below TLV and PEL. If not possible, use		
Work / Hygienic Practices	ces respiratory protection. Avoid contact with eyes and skin. Wash thoroughly after handling. Wash clothing after contact.		

Section VIII – Control Measures / Personal Protection

Section IX – Physical / Chemical Characteristics

Boiling Point (Calcium Oxide)	5,162 °F
Vapor Pressure (mm Hg)	0.0 mm Hg
Vapor Density (Air = 1)	N/A
Solubility in Water	Reacts with water to form calcium hydroxide while generating heat
Appearance and Color	White or gray, odorless lumps, granules, or powder
Specific Gravity (H ₂ O = 1)	3.3
Melting Point	4,662 °F
Evaporation Rate	N/A

Section X – Stability / Reactivity Information

Stability	Chemically stable, but reacts rapidly with water to form calcium hydroxide, generating heat.
Incompatibility – Conditions to Avoid	Burnt Lime should not be mixed or stored with the following materials due to the potential for violent reaction and release of heat: water (except when controlled), 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	None
Hazardous Polymerization	None

Section XI – Toxicological Information

Burnt 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.

Section XII – Ecological Information

Environmental Fate	This material shows no bioaccumulation potential.	
Environmental Toxicity	Because of the high pH of this material, it would be expected to produce potential toxicity upon exposure to aquatic organisms and aquatic systems.	

Section XIII – Disposal Considerations

Dispose of unused material in accordance with the Federal, State, and Local disposal requirements.

Section XIV – Transport Information

Burnt Lime is not classified as a hazardous material by the Department of Transportation (DOT) when transported by ground. However, when transported by air, this material is classified by DOT as a hazardous material.

Section XV – Regulatory Compliance

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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

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.