

**MISSISSIPPI LIME COMPANY – MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION**

<u>PRODUCT IDENTIFICATION</u> Calcium Hydroxide "Hydrated Lime"	<u>CHEMICAL ABSTRACT</u> CAS 1305-62-0	<u>DATE REVISED</u> 01/01/2007 Previous Versions Obsolete
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Product Line: MicroCal – HF, HFT20, HM, HS; PetroCal – HF, HM, HS; Standard Hydrated Lime; Commercial Hydrated Lime; Liquid Calcium Hydroxide (LCH); MP Liquid Calcium Hydroxide (MPLCH); VitaCal – H, LCH; Architectural Lime Putty

Section I

<u>MANUFACTURER</u> Mississippi Lime Company 16147 US Highway 61 Ste Genevieve, MO 63670 Website Mississippilime.com	<u>24 Hour Emergency Contact Number:</u> (800) 437-5463	<u>HMIS RATING</u> Health - 2 Flammability - 0 Physical Hazards - 0 Protective Equip - E
	<u>Telephone Number for Information:</u> (800) 437-5463	
Signature of Preparer <i>J.S. Castleberry</i>		

Section II – Hazardous Ingredients / Identity Information

Specific Chemical Identity; Common Names	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Calcium Hydroxide; Slaked Lime; Hydrated Lime	5 mg/m ³	5 mg/m ³		
Crystalline Silica (Quartz)	0.1 mg/m ³	0.05 mg/m ³	Respirable	Variable <0.10-0.2%

Calcium Hydroxide is not listed on the NTP, IARC, or OSHA lists of carcinogens. Calcium hydroxide produced with quicklime manufactured by coal fired kilns may contain crystalline silica >0.1%. Crystalline silica is listed by IARC and NTP but not by OSHA. In 1997, IARC determined that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). OSHA requires that products containing >0.1% of a known carcinogen must be labeled. NTP states that "silica, crystalline (respirable)" may reasonably be anticipated to be a carcinogen (1991). Mississippi Lime Company recommends using personal protection equipment when handling this product.

Section III – Physical / Chemical Characteristics

Boiling Point (Calcium Oxide)	5162 °F	Specific Gravity (H ₂ O) = 1)	2.2
Vapor Pressure (mm Hg)	NA	Melting Point – Loses CO ²	1076 °F
Vapor Density (Air = 1)	NA	Evaporation Rate	NA
Solubility in Water	0.185 % @ 0 °C; 0.077 % @ 100 °C		
Appearance and Color	Odorless; White as a dry powder, wet slurry, or paste		

Section IV – Fire and Explosion Hazard Data

Flash Point	NA	Flammable Limits – NA
Extinguishing Method	NA	
Special Fire Fighting Procedures	NA	
Unusual Fire and Explosion Hazards	NA	

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Section V – Reactivity Data

Stability	Stable	Conditions to Avoid – NA
Incompatibility (Materials to Avoid)	Water, Acids, Inter-halogens, Phosphorus (V) Oxide	
Hazardous Decomposition or Byproducts	None	
Hazardous Polymerization	Will Not Occur	Conditions to Avoid – NA

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation? YES	Absorption Through Skin? YES	Ingestion (swallowing)? - YES
Health Hazards	Acute	Prolonged contact may irritate or burn skin - especially in the presence of moisture. Inhalation of dust may irritate mucous membranes or respiratory passages. Direct eye contact may cause permanent damage.	
	Chronic	Long term exposure can cause irritation	
<u>Carcinogenicity</u> Calcium Hydroxide Crystalline Silica	<u>NTP?</u> NO YES	<u>IARC Monographs?</u> NO YES	<u>OSHA Regulated?</u> NO YES
Signs and Symptoms of Exposure	Irritation of eyes, respiratory tract, or red "sun burn" like skin.		
Medical Conditions Generally Aggravated by Exposure	Respiratory disease, skin condition.		
Emergency and First Aid Procedures	Provide fresh air. Wash off dust with soap and water. Drink plenty of water if swallowed. Flush eyes with water immediately and contact physician.		

Section VII – Precautions for Safe Handling

Steps to Be Taken in Case Material is Released or Spilled	Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended.
Waste Disposal Method	Dispose of product in accordance with Federal, State and Local regulations. See Section IX Guidance
Precautions to Be Taken in Handling	Store away from water and acids.
Other Precautions	

Section VIII – Control Measures

Respiratory Protection - Dust filter masks are recommended for personal comfort and/or protection		
Ventilation	Local Exhaust – To maintain TLV's and PEL's Mechanical – To maintain TLV's and PEL's	Special – None Other – None
Protective Gloves – Cloth/leather gloves when handling dry product –rubber gloves if wet or damp		
Eye Protection – ALWAYS wear shielded glasses and/or fitted goggles around product to reduce eye injury. Wearing of contact lenses may impede first aid.		
Other Protective Clothing – Wear long sleeve shirts and pants to minimize skin contact with product.		
Work / Hygienic Practices – Maintain dust exposure limits below TLV's and PEL's. Whenever necessary wear respiratory protection. Air blowers are effective for dedusting skin and clothing.		

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Section IX – Regulatory Compliance Guidance

CONEG	Materials used to manufacture bags containing products are CONEG compliant.
CWA	Product contains alkaline material potentially toxic to aquatic life if concentration is elevated for extended periods of time. Minimize contact with storm water runoff.
DOT	Product <u>is not regulated</u> by U.S. Dept of Transportation
EPA	Waste derived from unused products is not subject to RCRA. Waste is acceptable at most landfills as a "special waste" but can often be beneficially reused for other purposes.
SPILL	Whenever possible, contain and sweep up spillage in dry form rather than flushing with water. Fire may occur in containers if damp product is placed in direct contact with combustible materials.
TSCA	Product is listed on Toxic Substance Control Act, Canada DSL and all other International Inventories
Prop65	Subject to California Proposition 65 warning labeling requirements due to presence of trace metals and crystalline silica above instrument detection levels.
NAFTA	Product qualifies under HS Tariff No 2522.20 or 2825.90 as 100% US Origin, Preference Criteria A. Annual certification is provided upon direct request.