

# SAFETY DATA SHEET

## 1. Identification

1. Identification			
Product identifier	MLC™ Code L		
Other means of identification	None.		
Recommended use	Code L is a byproduct of limestone mining, with variable composition. Primarily powdered limestone with other mineral impurities. Used for commercial acid neutralization.		
Recommended restrictions	nended restrictions Not for food or food contact applications.		
	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as requunder applicable regulations.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer:	Mississippi Lime Company d/b/a MLC		
Address:	16147 US Highway 61		
	Ste Genevieve, MO 63670		
Phone Number:	(800) 437-5463		
24 Hour Emergency	(866) 519-4752		
Contact Number:			
Access code:	336393		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation	Category 1C	
	Serious eye damage/eye irritation	Category 1	
	Carcinogenicity	Category 1A	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3	
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Causes severe skin burns and eye damage. M Harmful to aquatic life.	lay cause respiratory irritation. May cause cancer.	
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.		
Storage	Store in a well-ventilated place. Keep contained	er tightly closed. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		

### 3. Composition/information on ingredients

#### Substances

Specific methods

General fire hazards

Substances			
Chemical name		CAS number	%
Calcium carbonate		471-34-1	40 - 60
Impurities			
Chemical name	Common name and synonyms	CAS number	%
Calcium oxide		1305-78-8	25 - 45
Calcium hydroxide		1305-62-0	≤ 25
Calcium silicate		1344-95-2	≤ 15
Calcium Sulfate		7778-18-9	≤ 15
Quartz		14808-60-7	≤ 1
Composition comments	Occupational Exposure Limits for impurities are listed in Section 8. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in center or doctor/physician if you feel unwell.	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.	
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.		
Eye contact	Do not rub eyes. Immediately flush eyes with contact lenses, if present and easy to do. Co center immediately.		
Ingestion	Call a physician or poison control center imm vomiting occurs, keep head low so that stom		
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin dama include stinging, tearing, redness, swelling, a blindness could result. Dusts may irritate the	nd blurred vision. Permanent e	eye damage including
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with wate immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect the	medical personnel are aware of	
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for	surrounding materials.	
Unsuitable extinguishing media	Do not use water as an extinguisher. The pro	oduct reacts with water and will	generate heat.
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do breathe fumes.	it without risk. In case of fire ar	nd/or explosion do not
<b>•</b> • • • •			

Use standard firefighting procedures and consider the hazards of other involved materials. The product is nonflammable and does not support combustion.

#### 6. Accidental release measures

V. Accidental release meas	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent product from entering drains. Stop the flow of material, if this is without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not get water inside containers. Prevent entry into waterways, sewer, basements or confined areas.
	Small Spills: Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Collect spill using a vacuum cleaner with a HEPA filter. Put material in suitable, covered, labeled containers.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store in a well-ventilated place. Avoid contact with acids, water, and moisture. Protect from humidity. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Impurities	Туре	Value	Form
Quartz (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Calcium silicate (CAS 1344-95-2)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
Calcium Sulfate (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
Calcium hydroxide (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
Calcium oxide (CAS 1305-78-8)	PEL	5 mg/m3	
US. OSHA Table Z-3 Permissible			
US. OSHA Table Z-3 Permissible Components	Exposure Limits (PEL) for Min Type	eral Dusts (29 CFR 1910.1000) Value	) Form
			Form
Components Calcium carbonate (CAS	Туре	Value	Form
Components Calcium carbonate (CAS	Туре	Value 5 mg/m3	Form Respirable fraction
Components Calcium carbonate (CAS	Туре	Value 5 mg/m3 15 mg/m3	Form Respirable fraction Total dust. Total dust.
Components Calcium carbonate (CAS 471-34-1)	Туре	Value 5 mg/m3 15 mg/m3 50 mppcf	Form Respirable fraction. Total dust. Total dust.
Components Calcium carbonate (CAS	Type TWA	Value 5 mg/m3 15 mg/m3 50 mppcf 15 mppcf	Form Respirable fraction. Total dust. Total dust. Respirable fraction.

Impurities	ssible Exposure Limits (PEL) for Mine Type	Value	Form
Calcium silicate (CAS 1344-95-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Calcium Sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit	t Values (TLV)		
Impurities	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Calcium Sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
NIOSH. Immediately Dange Impurities	rous to Life or Health (IDLH) Values, a Type	as amended Value	
Quartz (CAS 14808-60-7)	IDLH	50 mg/m3	
Calcium oxide (CAS 1305-78-8)	IDLH	25 mg/m3	
US. NIOSH: Pocket Guide t Components	o Chemical Hazards Type	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Impurities	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Calcium silicate (CAS 1344-95-2)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium Sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
ogical limit values	No biological exposure limits noted for	r the ingredient(s).	
ropriate engineering trols	Good general ventilation should be us applicable, use process enclosures, le maintain airborne levels below recom established, maintain airborne levels sufficient to maintain concentrations of (OEL), suitable respiratory protection must be available when handling this	ocal exhaust ventilation, or othe mended exposure limits. If exp to an acceptable level. If engine of dust particulates below the C must be worn. Eye wash facilit	er engineering controls to osure limits have not bee eering measures are not occupational Exposure Lir

#### nissible Exposure Limits (PEL) for Mineral Dusts (29 CEP 1910 1000) US OSUA Table 7 2 De

#### Individual protection measures, such as personal protective equipment

Eye/face protection	When working with powders or dusts, wear dust-proof chemical goggles and face shield unless full facepiece respiratory protection is worn.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

•	•
Appearance	
Physical state	Solid.
Form	Granular or powder.
Color	Gray to off-white.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Does not flash.
Evaporation rate	Not available.
Flammability (solid, gas)	Not flammable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	None.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not Soluble.
Solubility (solvents)	Not Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	None.
Decomposition temperature	> 1292 - < 1472 °F (> 700 - < 800 °C)
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under the prescribed storage conditions.

Possibility of hazardous reactions	Contact with water may generate enough heat to ignite combustible materials. Strong exothermic reaction with acids.	
Conditions to avoid	Contact with incompatible materials. Exposure to moisture.	
Incompatible materials	Acids. Water, moisture. Humid air. Hydrogen fluoride. Phosphorus pentoxide. Boric oxide. Steam. Many organic materials.	
Hazardous decomposition products	Calcium hydroxide.	

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing.	

#### Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Calcium carbonate (CAS 471-34	4-1)		
<u>Acute</u>			
Oral			
LD50	Rat	6450 mg/kg	
Impurities	Species	Test Results	
Calcium hydroxide (CAS 1305-6	62-0)		
Acute			
Oral			
LD50	Rat	7340 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye	e damage.	
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizati	ion		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to car	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer.		
	controlled. In 1997, IARC (the Inte crystalline silica inhaled from occu in making the overall evaluation, I/ industrial circumstances studied. O the crystalline silica or on external polymorphs." (IARC Monographs	ble dust and respirable crystalline silica should be monitored and rnational Agency for Research on Cancer) concluded that pational sources can cause lung cancer in humans. However ARC noted that "carcinogenicity was not detected in all Carcinogenicity may be dependent on inherent characteristics of factors affecting its biological activity or distribution of its on the evaluation of the carcinogenic risks of chemicals to organic fibres, 1997, Vol. 68, IARC, Lyon, France.)	
IARC Monographs. Overa	II Evaluation of Carcinogenicity		
Quartz (CAS 14808-60 NTP Report on Carcinoge	,	Carcinogenic to humans.	
Quartz (CAS 14808-60 OSHA Specifically Regula	N-7) Kn Ated Substances (29 CFR 1910.1001-	iown To Be Human Carcinogen. <b>1053)</b>	
Quartz (CAS 14808-60	I-7) Ca	ancer	
Reproductive toxicity	This product is not expected to car	una name du stiva an devisione estal affecta	

Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

Ecotoxicity	Harmful to aquatic life.			
Impurities		Species	Test Results	
Calcium hydroxide (CAS 1305-62-0)				
Aquatic				
Acute				
Fish	LC50	Zambezi barbel (Clarias gariepinus)	33.9 mg/l, 96 hours	
Persistence and degradability	The product c	The product contains inorganic compounds which are not biodegradable.		
Bioaccumulative potential	No data availa	No data available on bioaccumulation.		
Mobility in soil	The product is	The product is insoluble in water.		
Other adverse effects	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.			

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

### 14. Transport information

UN number UN1910 UN proper shipping name Calcium oxide	
UN proper shipping name Calcium oxide	
Transport hazard class(es)	
Class 8	
Subsidiary hazard -	
Label(s) 8	
Packing group III	
Environmental hazards	
Marine pollutant No.	
<b>Special precautions for user</b> Symbol A – Airfreight Regulated. This material is not subject to HMR when transported ground. Read safety instructions, SDS and emergency procedures before handling.	by
Special provisions IB8, IP3, T1, TP33	
Packaging exceptions 154	
Packaging non bulk 213	
Packaging bulk 240	
ΙΑΤΑ	
UN number UN1910	
UN proper shipping name Calcium oxide	
Transport hazard class(es)	
Class 8	
Subsidiary hazard -	
Packing group III	

Environmental hazards	No.		
ERG Code	8L		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
UN number	UN1910		
UN proper shipping name	CALCIUM OXIDE		
Transport hazard class(es)			
Class	8		
Subsidiary hazard	-		
Packing group	-		
Environmental hazards	Na		
Marine pollutant EmS	No. Not assigned.		
_	r Not subject to the provisions of this Code but may be subject to provisions governing the		
	transport of dangerous good	Is by other modes. SP 960. Read safety instructions, SDS and	
<b>—</b>	emergency procedures befo	re handling.	
Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable.		
the IBC Code			
15. Regulatory information			
<b>U</b>			
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Exp	ort Notification (40 CFR 707	', Subpt. D)	
Not regulated. CERCLA Hazardous Sub	ostance List (40 CFR 302.4)		
Not listed.			
SARA 304 Emergency re	lease notification		
Not regulated.	lated Cubatanasa (20 CED (	040 4004 4052)	
	lated Substances (29 CFR 1		
Quartz (CAS 14808-6	00-7)	Cancer lung effects	
		immune system effects	
		kidney effects	
Toxic Substances Control Act (TSCA)		omponents of the mixture on the TSCA 8(b) inventory are designated ve".	
Superfund Amendments and Rea SARA 302 Extremely hazard	•	ARA)	
Not listed.	ous substance		
SARA 311/312 Hazardous	Yes		
chemical	163		
Classified hazard	Skin corrosion or irritation		
categories	Serious eye damage or eye	irritation	
	Carcinogenicity Specific target organ toxicity	(single or repeated exposure)	
SARA 313 (TRI reporting)	opeonio target organ toxicity		
Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutar	its (HAPs) List	
Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)			
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. Massachusetts RTK - Su	bstance List		

US. Massachusetts RTK - Substance List

Calcium carbonate (CAS 471-34-1)

Calcium hydroxide (CAS 1305-62-0) Calcium oxide (CAS 1305-78-8) Calcium silicate (CAS 1344-95-2) Calcium Sulfate (CAS 7778-18-9) Quartz (CAS 14808-60-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Calcium carbonate (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0) Calcium oxide (CAS 1305-78-8) Calcium silicate (CAS 1344-95-2) Calcium Sulfate (CAS 7778-18-9) Quartz (CAS 14808-60-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Calcium carbonate (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0) Calcium oxide (CAS 1305-78-8) Calcium silicate (CAS 1344-95-2) Calcium Sulfate (CAS 7778-18-9) Quartz (CAS 14808-60-7)

#### US. Rhode Island RTK

Calcium carbonate (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0) Calcium oxide (CAS 1305-78-8) Calcium silicate (CAS 1344-95-2) Calcium Sulfate (CAS 7778-18-9) Quartz (CAS 14808-60-7)

#### **California Proposition 65**



**WARNING:** This product can expose you to SILICA, CRYSTALLINE QUARTZ, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Listed: October 1, 1988

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7)
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International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	30-October-2024
Revision date	-
Version #	01
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 1



Disclaimer

Mississippi Lime Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.