# SAFETY DATA SHEET



# 1. Identification

Product identifier	MLC™ Quicklime - Verona		
Other means of identification			
Product code	Lime, Quicklime - Various Gradations, Granular Quicklime, Calcium Oxide		
CAS number	1305-78-8		
Recommended use	Industrial uses		
Recommended restrictions	Not for use as direct food or pharma ingredien	ts.	
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		
Access code.	330393		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation	Category 1C	
	Serious eye damage/eye irritation	Category 1	
	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. May cause respiratory irritation. Harmful to aquatic life.		
Precautionary statement			
Prevention	Do not breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.		
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		

 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 container tightly closed. Store locked up.

 Disposal
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 Hazard(s) not otherwise
 None known.

 classified (HNOC)

## 3. Composition/information on ingredients

Subs	tan	ces

Substances				
Chemical name	Common name and synonyms	CAS number	%	
Calcium oxide (CaO)	1305-78-8		93 - 95	
Impurities				
Chemical name	Common name and synonyms	CAS number	%	
Silicon Oxide		7631-86-9	≤ 2	
Magnesium Oxide		1309-48-4	≤ 5	
Composition comments	Occupational Exposure Limits for impurities a percent by weight.	re listed in Section 8. All conce	entrations are in	
4. First-aid measures				
Inhalation		Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a poison center or doctor/physician if you feel unwell.		
Skin contact	Take off immediately all contaminated clothin poison control center immediately. Chemical contaminated clothing before reuse.	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		
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.			
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.			
Most important symptoms/effects, acute and delayed	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. May cause respiratory irritation.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water 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 you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.			
5. Fire-fighting measures				
Suitable extinguishing media	Use fire-extinguishing media appropriate for s	surrounding materials.		
Unsuitable extinguishing media	Do not use water as an extinguisher. The product reacts with water and will generate heat.			
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
Fire fighting equipment/instructions	Use water spray to cool unopened containers without risk. In case of fire and/or explosion d		ea if you can do it	
Specific methods	Use standard firefighting procedures and con-	sider the hazards of other invo	lved materials.	
General fire hazards	The product is nonflammable and does not support combustion.			
6. Accidental release meas	sures			
Personal precautions,	Keep unnecessary personnel away. Keep pe	ople away from and upwind of	spill/leak. Wear	

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	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. 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 original tightly closed container. Store in a well-ventilated place. Avoid contact with acids, water, and moisture. Protect from humidity. The substance is hygroscopic and will absorb water by contact with the moisture in the air. Store away from incompatible materials (see Section 10 of the SDS).	

# 8. Exposure controls/personal protection

### Occupational exposure limits

U.S OSHA Impurities	Туро	Value	
-	Туре		
Silicon Oxide (CAS 7631-86-9)	TWA	80 mg/m3	
US. OSHA Table Z-1 Permissible E	Exposure Limits (PEL) for Air	Contaminants (29 CFR 1910.1	000)
Material	Туре	Value	
Calcium oxide (CaO) (CAS 1305-78-8)	PEL	5 mg/m3	
Impurities	Туре	Value	Form
Magnesium Oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
US. OSHA Table Z-3 Permissible E	Exposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000	)
Impurities	Туре	Value	Form
Silicon Oxide (CAS 7631-86-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		20 mppcf	
Magnesium Oxide (CAS 1309-48-4)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	s (TLV)		
Material	Туре	Value	
Calcium oxide (CaO) (CAS 1305-78-8)	TWA	2 mg/m3	
Impurities	Туре	Value	Form
Magnesium Oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.

Material	Туре	Value	
Calcium oxide (CaO) (CAS 1305-78-8)	IDLH	25 mg/m3	
Impurities	Туре	Value	
Silicon Oxide (CAS 7631-86-9)	IDLH	3000 mg/m3	
Magnesium Oxide (CAS 1309-48-4)	IDLH	750 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Material	Туре	Value	
Calcium oxide (CaO) (CAS 1305-78-8)	TWA	2 mg/m3	
Impurities	Туре	Value	
Silicon Oxide (CAS 7631-86-9)	TWA	6 mg/m3	
ological limit values	No biological exposure limits noted for the ingredient(s).		
	maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.		
dividual protection measures	, such as personal protective equip	ment	
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. Apron with long sleeves or two piece chemical protective clothing, and rubber boots are 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	e clothing, when necessary.	
eneral hygiene onsiderations	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	Powder.
Color	Light grey to white.
Odor	Odorless.
Odor threshold	Not available.
рН	> 12.4 Saturated solution in water
Melting point/freezing point	4661.6 °F (2572 °C)
Initial boiling point and boiling range	5162 °F (2850 °C)
Flash point	Not available.
Evaporation rate	Not available.

Flammability (solid, gas)	Non flammable.	
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Reacts to form calcium hydroxide.	
Partition coefficient	Not available.	
(n-octanol/water)		
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	3.34 g/cm3	
Explosive properties	Not explosive.	
Molecular formula	Ca-O	
Molecular weight	56.08 g/mol	
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	Strong exothermic reaction with acids. Calcium oxide reacts exothermically with water to form calcium hydroxide. The heat generated by this reaction may ignite combustible materials.		
Conditions to avoid	Contact with incompatible materials. The substance is hygroscopic and will absorb water by contact with the moisture in the air.		
Incompatible materials	Acids. Water, moisture. Humid air. Hydrogen fluoride. Phosphorus pentoxide. Boric oxide. Steam. Many organic materials.		
Hazardous decomposition products	Contact with water: Calcium hydroxide.		

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause respiratory irritation. 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. Causes digestive tract burns. May cause respiratory irritation.	

### Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

# Toxicological data

Species	Test Results
6-9)	
Rabbit	> 5000 mg/kg, 24 Hours
Rat	> 0.14 mg/l, 4 Hours
8	G-9) Rabbit

Impurities	Species	Test Results	
Oral			
LD50	Rat	> 3300 mg/kg	
Skin corrosion/irritation	Causes severe skin bur	IS.	
Serious eye damage/eye irritation	Causes serious eye dan	nage.	
Respiratory or skin sensitization	on		
Respiratory sensitization	Not a respiratory sensitiz	zer.	
Skin sensitization	This product is not expe	cted to cause skin sensitization.	
Germ cell mutagenicity	No data available to indi mutagenic or genotoxic.	cate product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to car	rcinogenicity to humans.	
IARC Monographs. Overal	I Evaluation of Carcinoger	nicity	
Silicon Oxide (CAS 763 NTP Report on Carcinoger		3 Not classifiable as to carcinogenicity to humans.	
Not listed. OSHA Specifically Regulat Not listed.	ed Substances (29 CFR 1	910.1001-1053)	
Reproductive toxicity	This product is not expe	cted to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory ir	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation ma	Prolonged inhalation may be harmful.	
12. Ecological informatio	n		
Ecotoxicity	Harmful to aquatic life.		
Persistence and degradability	The product solely cons	ists of inorganic compounds which are not biodegradable.	
Bioaccumulative potential	No data available on bio	No data available on bioaccumulation.	
Mobility in soil	No data available for this product.		
Other adverse effects	The product may affect to organisms.	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.	
13. Disposal consideration	ons		
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 v	with all applicable regulations.	
Hazardous waste code	The waste code should disposal company.	be assigned in discussion between the user, the producer and the waste	

Waste from residues / unused<br/>productsDispose in accordance with local regulations. Empty containers or liners may retain some product<br/>residues. This material and its container must be disposed of in a safe manner (see: Disposal<br/>instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is

ntaminated 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

#### DOT UN number UN proper shipping name Transport hazard class(es) Class

Subsidiary hazard

8

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UN1910 Calcium oxide

Label(s) Packing group Environmental hazards Marine pollutant Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk	8 III No. Symbol A – Airfreight Regulated. This material is not subject to HMR when transported by ground. Read safety instructions, SDS and emergency procedures before handling. IB8, IP3, T1, TP33 154 213 240			
IATA UN number	UN1910			
UN proper shipping name Transport hazard class(es)	Calcium oxide			
Class Subsidiary hazard	8 -			
Packing group Environmental hazards				
ERG Code	No. 8L			
Special precautions for user IMDG	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 Marine pollutant	No.			
EmS	Not assigned.			
Special precautions for user	Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes. SP 960. Read safety instructions, SDS and emergency procedures before handling.			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.			
15. Regulatory information				
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
	ort Notification (40 CFR 707, Subpt. D)			
Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)				
SARA 304 Emergency re	Not listed. SARA 304 Emergency release notification			
Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.				
Toxic Substances Control Ac	t (TSCA) This substance is on the TSCA 8(b) inventory and is designated "active".			
Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)			

Not rogulatou.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Calcium oxide (CaO) (CAS 1305-78-8) Magnesium Oxide (CAS 1309-48-4) Silicon Oxide (CAS 7631-86-9)

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

Calcium oxide (CaO) (CAS 1305-78-8) Magnesium Oxide (CAS 1309-48-4)

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

Calcium oxide (CaO) (CAS 1305-78-8) Magnesium Oxide (CAS 1309-48-4) Silicon Oxide (CAS 7631-86-9)

#### US. Rhode Island RTK

Calcium oxide (CaO) (CAS 1305-78-8) Magnesium Oxide (CAS 1309-48-4) Silicon Oxide (CAS 7631-86-9)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **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	21-August-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.