SAFETY DATA SHEET



1. Identification

in identification			
Product identifier	MLC™ Dolomitic Lime		
Other means of identification			
Product code	Dolime, Dolomitic Quicklime, Calcium Magnesium Oxide, Dolo Quicklime, Burnt Dolomite, Calcined Dolomite		
Recommended use	Flue gas treatment, Steel flux, pH adjustment, Construction, Caustic agent		
Recommended restrictions	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 required under applicable regulations.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer:	Mississippi Lime Company, LLC dba 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	1		
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
	Carcinogenicity	Category 1A	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
	Specific target organ toxicity, repeated exposure	Category 2 (Lungs)	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3	
OSHA defined hazards	Not classified.		
Label elements	$\land \land \land$		
Signal word	Danger		
Hazard statement	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer. May cause damage to organs (Lungs) through prolonged or repeated exposure. Harmful to aquatic life.		
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. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.		
Response	If on skin: Wash with plenty of water. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		

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 classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Calcium oxide		1305-78-8	> 50
Magnesium oxide		1309-48-4	> 32
Iron oxide		1309-37-1	< 4
Quartz		14808-60-7	< 3
Composition comments	All concentrations are in percent by weigh below reportable limits.	t. Components not listed are eithe	r non-hazardous or
4. First-aid measures			
nhalation	Remove victim to fresh air and keep at rescenter or doctor/physician if you feel unwe	st in a position comfortable for brea ell.	athing. Call a poisor
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
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. Get medical attention immediately.		
ngestion	Rinse mouth. Get medical attention if sym	ptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may inclu vision. Permanent eye damage including I tract, skin and eyes. Coughing. Skin irritat may cause chronic effects.	blindness could result. Dusts may	irritate the respirato
ndication of immediate medical attention and special rreatment needed	Provide general supportive measures and Symptoms may be delayed.	treat symptomatically. Keep victin	n under observatior
General information	IF exposed or concerned: Get medical ad (show the label where possible). Ensure the involved, and take precautions to protect t	hat medical personnel are aware o	
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate f	for surrounding materials.	
Jnsuitable extinguishing nedia	Do not use water as an extinguisher. The	product reacts with water and will	generate heat.
Specific hazards arising from he chemical	During fire, gases hazardous to health ma	y be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and fu	Ill protective clothing must be worr	in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can breathe fumes.	do it without risk. In case of fire an	d/or explosion do n
haaifia mathada	Use standard firefighting procedures and	consider the hazards of other invol	ved materials.
Specific methods	0 01		

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. Do not use aluminum for transport or storage if there is a risk of contact with water. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	Туре	Value	
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Permissible E	xposure Limits (PEL) for Air	Contaminants (29 CFR 1910.1	000)
Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	PEL	5 mg/m3	
Iron oxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Magnesium oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
US. OSHA Table Z-3 Permissible E Components	xposure Limits (PEL) for Min Type	eral Dusts (29 CFR 1910.1000 Value) Form
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
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.
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values	(TLV)		
Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.

Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
NIOSH. Immediately Danger Components	ous to Life or Health (IDLH) Values, Type	as amended Value	
Calcium oxide (CAS 1305-78-8)	IDLH	25 mg/m3	
Iron oxide (CAS 1309-37-1)	IDLH	2500 mg/m3	
Magnesium oxide (CAS 1309-48-4)	IDLH	750 mg/m3	
Quartz (CAS 14808-60-7)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
logical limit values	No biological exposure limits noted f	or the ingredient(s).	
oosure guidelines	Occupational exposure to nuisance should be monitored and controlled.	dust (total and respirable) and re	spirable crystalline silica
oropriate engineering htrols	Good general ventilation should be a applicable, use process enclosures, maintain airborne levels below recor established, maintain airborne levels sufficient to maintain concentrations (OEL), suitable respiratory protection	local exhaust ventilation, or othe mmended exposure limits. If expo to an acceptable level. If engine of dust particulates below the O	er engineering controls to osure limits have not been eering measures are not ccupational Exposure Limi
ividual protection measures,	such as personal protective equipm	nent	
Eye/face protection	When working with powders or dusts facepiece respiratory protection is w		
Skin protection Hand protection	Wear appropriate chemical resistant	gloves. Suitable gloves can be i	recommended by the glove
	supplier.		
Skin protection Other	Wear appropriate chemical resistant	clothing. Use of an impervious a	apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved resp exceeding the exposure limits. Cher dust and mist filter. If respirators are with OSHA 29 CFR 1910.134.	nical respirator with organic vapo	or cartridge, full facepiece,
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
neral hygiene Isiderations	Observe any medical surveillance re measures, such as washing after ha smoking. Routinely wash work cloth	ndling the material and before ea	ating, drinking, and/or

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	White to dark gray
Odor	Odorless.
Odor threshold	Not available.
рН	12.44 (in solution) (77 °F (25 °C))
Melting point/freezing point	4658 °F (2570 °C)

Initial boiling point and boiling range	5162 °F (2850 °C)
•	Not applicable.
Flash point	
Evaporation rate	Not applicable. Non flammable.
Flammability (solid, gas)	
Upper/lower flammability or exp	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.0 – 2.8 g/cm3 (Water = 1)
Solubility(ies)	
Solubility (water)	1.2 g/l (77 °F (25 °C))
Partition coefficient (n-octanol/water)	Not applicable for mixtures.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	Reacts exothermically with water.
Chemical stability	The product is stable under normal conditions of use, storage and transport.
Possibility of hazardous reactions	Reacts exothermically with water. Strong exothermic reaction with acids.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Water, moisture. Humid air. Hydrogen fluoride. Phosphorus pentoxide. Boric oxide. Steam. Nitro-Organic Compounds Reactive metals.
Hazardous decomposition products	None.
11. Toxicological informat	tion

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. 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. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

Components	Species	Test Results
Magnesium oxide (CAS 1309-48-4)		
<u>Acute</u>		
Oral		
LD50	Rat	3870 - 3990 mg/kg

Components	Species	Test Results
Quartz (CAS 14808-60-7)		
<u>Chronic</u>		
Inhalation		0.0500 / 0
LOEC	Human	0.0563 mg/m3
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damag	ge.
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer	:
Skin sensitization	This product is not expected	ed to cause skin sensitization.
Germ cell mutagenicity	No data available to indicat mutagenic or genotoxic.	te product or any components present at greater than 0.1% are
Carcinogenicity	May cause cancer. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.	
IARC Monographs. Overall Ev	valuation of Carcinogenic	ity
Iron oxide (CAS 1309-37-1 Quartz (CAS 14808-60-7)	-	3 Not classifiable as to carcinogenicity to humans.1 Carcinogenic to humans.
NTP Report on Carcinogens		
Quartz (CAS 14808-60-7) OSHA Specifically Regulated	Substances (29 CFR 1910	Known To Be Human Carcinogen. 0.1001-1053)
Quartz (CAS 14808-60-7)		Cancer
Reproductive toxicity	This product is not expecte	ed to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irrita	ation.
Specific target organ toxicity - repeated exposure	May cause damage to orga	ans (Lungs) through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may b	be harmful. Prolonged exposure may cause chronic effects.
12. Ecological information		
Ecotoxicity	Harmful to aquatic life.	
Persistence and degradability	-	anic compounds which are not biodegradable.
Bioaccumulative potential	No data available on bioac	
Mobility in soil	The product is insoluble in	
Other adverse effects		acidity (pH-factor) in water with risk of harmful effects to aquatic
13. Disposal consideration	-	
Disposal instructions	this material to drain into se	ose in sealed containers at licensed waste disposal site. Do not allow ewers/water supplies. Do not contaminate ponds, waterways or ditche ainer. Dispose of contents/container in accordance with patiened regulations.

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 (see: Disposal instructions).
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

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency re	elease notification				
Not regulated.					
OSHA Specifically Regu					
Quartz (CAS 14808-6	60-7)	Cancer			
		lung effects immune system effects			
		kidney effects			
Toxic Substances Control Act (TSCA)		All components of the mixture on the TSCA 8(b) "active".	inventory are designated		
Superfund Amendments and Rea	authorization Act of 19	986 (SARA)			
SARA 302 Extremely hazard	ous substance				
Not listed.					
SARA 311/312 Hazardous chemical	Yes				
Classified hazard	Skin corrosion or irrita				
categories	Serious eye damage of Carcinogenicity	or eye irritation toxicity (single or repeated exposure)			
	Specific larger organ i	lonicity (single of repeated exposure)			
SARA 313 (TRI reporting) Not regulated.					
Other federal regulations					
Clean Air Act (CAA) Section	112 Hazardous Air Po	ollutants (HAPs) List			
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Rele	ease Prevention (40 CFR 68.130)			
Not regulated.	.,				
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations					
US. Massachusetts RTK - Su	ubstance List				
Calcium oxide (CAS 1305	5-78-8)				
Iron oxide (CAS 1309-37-1)					
Magnesium oxide (CAS 1					
Quartz (CAS 14808-60-7) US. New Jersey Worker and		Know Act			
Calcium oxide (CAS 1305					
Iron oxide (CAS 1309-37-					
Magnesium oxide (CAS 1	Magnesium oxide (CAS 1309-48-4)				
Quartz (CAS 14808-60-7)		Knowlew			
US. Pennsylvania Worker an		D-Know Law			
Calcium oxide (CAS 1305 Iron oxide (CAS 1309-37-					
Magnesium oxide (CAS 1					
Quartz (CAS 14808-60-7)					
US. Rhode Island RTK					
Calcium oxide (CAS 1305-78-8) Iron oxide (CAS 1309-37-1)					
Magnesium oxide (CAS 1 Quartz (CAS 14808-60-7)	309-48-4)				
California Proposition 65					
-	s product can expose y	ou to Quartz, which is known to the State of Califo	rnia to cause cancer.		
		www.P65Warnings.ca.gov.			
California Proposition 6	5 - CRT: Listed date/C	arcinogenic substance			
Quartz (CAS 14808-6	60-7)	Listed: October 1, 1988			
International Inventories					
Country(s) or region	Inventory name		On inventory (yes/no)*		
Australia	-	f Industrial Chemicals (AICIS)	Yes		

Country(s) or region	Inventory name On ir	ventory (yes/no)*
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 "Vee" indicates that all some	nexts of this product comply with the inventory requirements administered by the asympton	

*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	29-October-2024
Revision date	03-April-2025
Version #	02
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 1

NFPA ratings



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.