# MISSISSIPPI® LIME Discovering what's possible with calcium

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier 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** 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 required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Mississippi Lime Company
Address: 16147 US Highway 61
Ste Genevieve, MO 63670

**Phone Number:** (800) 437-5463

24 Hour Emergency

**Contact Number:** (855) 237-5573

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 Category 3

hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause respiratory irritation. May cause cancer.

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. 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 container tightly closed. Store locked up.

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

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Hazard(s) not otherwise classified (HNOC)

Contact with moisture or water may generate sufficient heat to ignite nearby combustible

materials.

## Supplemental information

None.

# 3. Composition/information on ingredients

#### **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 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 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

Indication of immediate medical attention and special treatment needed

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.

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 exposed or concerned: Get medical advice/attention. 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 surrounding materials. DO NOT use water if avoidable. If water is used, apply flooding amounts to dissipate heat of dilution.

Unsuitable extinguishing media

DO NOT use water if avoidable. The product reacts with water and will generate heat.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials.

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 In case of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Move containers from fire area if you can do it without risk. Water runoff can cause environmental damage.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

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## 6. Accidental release measures

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. 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. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

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

US. OSHA Table Z-1 Permissible Impurities	Exposure Limits (PEL) for Air o	Contaminants (29 GFR 1910.10 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	Exposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000)	
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Impurities	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.

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Impurities	ssible Exposure Limits (PEL) for Mine Type	Value	Form
		2.4 mppcf	Respirable.
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	rous to Life or Health (IDLH) Values, a	as amended	
Impurities	Туре	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	Туре	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 fo	r the ingredient(s).	
ropriate engineering trols	Good general ventilation should be us applicable, use process enclosures, le maintain airborne levels below recome stablished, maintain airborne levels sufficient to maintain concentrations (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 O must be worn. Eye wash faciliti	er engineering controls to osure limits have not bee eering measures are not ccupational Exposure Lim

## 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. The most suitable glove must be chosen in

consultation with the gloves supplier, who can inform about the breakthrough time of the glove

material.

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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Does not flash
Evaporation rate Not available.
Flammability (solid, gas) Not flammable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure None

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not Soluble
Solubility (solvents) Not Soluble
Partition coefficient Not available.

(n-octanol/water)

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.

SDS US

Possibility of hazardous

reactions

Contact with water may generate enough heat to ignite combustible materials. Strong exothermic

reaction with acids.

Conditions to avoid

Exposure to moisture. Avoid temperatures exceeding the decomposition temperature. Contact with

incompatible materials.

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. Causes serious eye damage. Eye contact 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 known.

Components **Species Test Results** 

Calcium carbonate (CAS 471-34-1)

Acute Oral

LD50 Rat 6450 mg/kg **Impurities Species Test Results** 

Calcium hydroxide (CAS 1305-62-0)

Acute Oral

LD50 Rat 7340 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica Carcinogenicity

should be monitored and controlled. 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.)

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

**NTP Report on Carcinogens** 

Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (CAS 14808-60-7) Cancer

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

May cause respiratory irritation. Specific target organ toxicity -

single exposure

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Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 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

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available on bioaccumulation. 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 Dispose of this material and its container to hazardous or special waste collection point. Incinerate

the material under controlled conditions in an approved incinerator. 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

Contaminated packaging

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.

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

Not regulated as dangerous goods.

#### **IATA**

UN number UN1910
UN proper shipping name Calcium oxide

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

The transportation information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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## 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 release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (CAS 14808-60-7) Cancer

lung effects

immune system effects

kidney effects

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated

"active".

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

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)

Not regulated.

## 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 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)

#### **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.

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

Inventory name

Quartz (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Quartz (CAS 14808-60-7)

#### **International Inventories**

Country(s) or region

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

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

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

Issue date16-January-2019Revision date13-December-2023

Version # 04

United States & Puerto Rico

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.

Code L SDS US

On inventory (yes/no)\*

Yes

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).