



www.laballey.com
512-668-9918
Lime (Agricultural), Pelleted

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Lime, Pelleted

CAS number 1305-78-8

Synonyms Quicklime, Calcium Oxide

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Short-term (acute) aquatic hazard (Category 3), H402

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

Precautionary P261 Avoid breathing dust.

statements P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 + P310 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.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts with water to form corrosive calcium hydroxide, with evolution of heat. Temperatures as high as 800° C have been reached.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
calcium oxide	Quicklime, Lime	1305-78-8	<=100%

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

**General advice** Show this material safety data sheet to the doctor in attendance.

**If inhaled** After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in

ophthalmologist. Remove contact lenses.

**If swallowed** After swallowing: immediately make victim drink water (two glasses at most).

Consult a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

circumstances and the surrounding environment.

Unsuitable extinguishing media DO NOT USE WATER, Carbon dioxide (CO2).

#### 5.2 Specific hazards arising from the substance or mixture

Non-combustible. Water reactive.

#### 5.3 Special protective equipment and precautions for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

#### **Explosion limits**

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
3	0	1	N/A

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

# 6.2 Environmental precautions

Avoid release to the environment. See Section 12 for additional Ecological Information.

## 6.3 Methods and materials for containment and cleaning up

Do not expose spill to water. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. See section 13 for proper disposal.

## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle under inert gas, protect from moisture.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Store under an inert atmosphere. Incompatible Materials. Acids. Strong oxidizing agents. Halogens. Fluorine. Hydrogen fluoride. Carbon dioxide (CO2). Alcohols. Water.

#### Incompatibilities

Acids, Strong oxidizing agents, Halogens, Fluorine, Hydrogen fluoride, Carbon dioxide(CO2), Alcohols, Water.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

#### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Component	Type	Value
Calcium oxide	TWA	5 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Calcium oxide	TWA	2 mg/m3

# **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value	
Calcium oxido	TWA	2 mg/m3	
Calcium oxide	IDLH	25 mg/m3	

#### **Biological occupational exposure limits**

No additional information.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

# **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

Do not empty into drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Powder solid

Appearance Beige Odor Odorless

Odor Threshold No information available

pH 12.6 at 20 °C (68 °F) - (saturated solution)

Melting Point/Range 2570 °C / 4658 °F

Boiling Point/Range 2850 °C / 5162 °F @ 760 mmHg

Evaporation Rate No information available Flammability (solid) No information available

Flammability or explosive limit

Upper No information available
Lower No information available
Vapor Pressure No information available
Vapor Density No information available
Density No information available

Solubility Reacts with water

Partition coefficient; No information available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula Ca O Molecular Weight 56.08

VOC Content(%) No information available Oxidizing properties No information available

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Reactive hazard.

# 10.2 Chemical stability

Moisture sensitive. Air sensitive.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Exposure to air. Incompatible products. Exposure to moist air or water.

# 10.5 Incompatible materials

Acids, Strong oxidizing agents, Halogens, Fluorine, Hydrogen fluoride, Carbon dioxide (CO2), Alcohols, Water.

# 10.6 Hazardous decomposition products

In the event of fire: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium oxide	>2000 mg/kg (female Rat)	Not listed	> 6.04 mg/L (Rat) 4 h

#### Skin corrosion/irritation

Irritating to respiratory system and skin. Risk of serious damage to eyes.

#### Serious eye damage/eye irritation

No additional information.

# Respiratory or skin sensitization

No additional information.

#### Germ cell mutagenicity

No additional information.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
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Calcium oxide	1305- 78-8	Not listed				
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### Specific target organ toxicity - single exposure

Respiratory system.

## Specific target organ toxicity - repeated exposure

None known.

#### Reproductive toxicity

No additional information.

#### Chronic effects

No additional information.

# 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains.

# 12.2 Persistence and degradability

Persistence is unlikely based on information available.

Component	Freshwater Fish		
Calcium oxide	LC50: = 1070 mg/L, 96h static (Cyprinus carpio)		

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Is not likely mobile in the environment.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

## **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

## DOT (US)

UN Number UN1910

Proper Shipping name CALCIUM OXIDE

Hazard Class 8
Packaging Group III

#### **IMDG**

UN Number UN1910

Proper Shipping name CALCIUM OXIDE

Hazard Class 8
Packaging Group III

#### **IATA**

UN Number UN1910

Proper Shipping name CALCIUM OXIDE

Hazard Class 8
Packaging Group III

# **SECTION 15: Regulatory information**

# US federal regulations

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

Not listed/applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed/applicable.

# SARA 304 Emergency release notification

Not listed/applicable.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed/applicable.

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

# SARA 302 Extremely hazardous substance

Not listed/applicable.

#### SARA 311/312 Hazardous

See section 2 for hazard classifications.

# SARA 313 (TRI reporting)

Not listed/applicable.

#### Other federal regulations

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

Not listed/applicable.

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

Not listed/applicable.

#### Safe Drinking Water Act

Not listed/applicable.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed/applicable.

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Calcium oxide: Listed.

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

Calcium oxide: Listed.

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

Calcium oxide: Listed.

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **SECTION 16: Other information**

Date of Issue: 6/26/2025

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.