

Revision Date: 10-10-2019

## SAFETY DATA SHEET

## 1. Identification

Product identifier: CALCIUM OXIDE

Other means of identification Product No.: C2550

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor Information

#### Supplier:

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669

## **Emergency telephone number:**

Tel.: 512-668-9918

24 Hour Emergency:

InfoTrac: 800-535-5053

## 2. Hazard(s) identification

## **Hazard Classification**

#### **Health Hazards**

Skin Corrosion/Irritation Category 1
Serious Eye Damage/Eye Irritation Category 1
Specific Target Organ Toxicity - Category 3
Single Exposure

## **Label Elements**

## **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Causes severe skin burns and eye damage.

Precautionary Statement

**Prevention:** Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Wash hands thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

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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. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly

closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

## 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
CALCIUM OXIDE		1305-78-8	90 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**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.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Apply artificial

respiration if victim is not breathing Call a physician or poison control center

immediately.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately. In case of irritation from airborne exposure, move to fresh air.

## Most important symptoms/effects, acute and delayed

**Symptoms:** Causes severe skin and eye burns. Causes digestive tract burns. Mist or

vapor extremely irritating to eyes and respiratory tract.

## Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

## 5. Fire-fighting measures

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**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Carbon dioxide or dry powder. Foam.

Unsuitable extinguishing

media:

The product reacts with water and will generate heat.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed. Product is corrosive.

Wear appropriate protective gear if spilled during fire fighting.

Special protective equipment and precautions for firefighters

**Special fire fighting** 

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective

Equipment.

Methods and material for containment and cleaning

up:

Avoid dust formation. Do not get water on spilled substance or inside containers. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. 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:

Wear protective gloves/protective clothing/eye protection/face protection. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using the product. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water. See Section 8 of the MSDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities:

Keep away from food, drink and animal feeding stuffs. Keep containers

tightly closed. Store in a cool and well-ventilated place.

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## 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
CALCIUM OXIDE	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	REL	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**Appropriate Engineering** 

No data available.

Controls

## Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

**Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield. Wear

a full-face respirator, if needed.

**Skin Protection** 

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

**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. Air-purifying respirator with a high

efficiency particulate filter.

Hygiene measures: Provide eyewash station and safety shower. 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. Do not get this material in

contact with skin. Do not get in eyes.

## 9. Physical and chemical properties

#### **Appearance**

Physical state: Solid

Form: Granular powder

Color: White
Odor: Odorless

Odor threshold: No data available.

pH: 12.8 Saturated solution in water

Melting point/freezing point: 2,572 °C Initial boiling point and boiling range: 2,850 °C

Flash Point: Not applicable Evaporation rate: No data available.

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Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Viscosity:
No data available.
No data available.

Other information

Molecular weight: 56.08 g/mol (CaO)

## 10. Stability and reactivity

**Reactivity:** Reacts with water.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

Hazardous polymerization does not occur. Reacts with water.

Conditions to Avoid: Moisture. Reacts violently with strong acids.

**Incompatible Materials:** Moisture. Oxidizing agents. Acids. Halogens. Alcohols.

**Hazardous Decomposition** 

**Products:** 

Oxides of calcium.

## 11. Toxicological information

## Information on likely routes of exposure

**Ingestion:** May cause burns of the gastrointestinal tract if swallowed.

**Inhalation:** May cause damage to mucous membranes in nose, throat, lungs and

bronchial system.

**Skin Contact:** Causes severe skin burns.

**Eye contact:** Causes serious eye damage.

## Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

**Dermal** 

Product:

No data available.

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Inhalation

**Product:** No data available.

**Repeated Dose Toxicity** 

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Causes skin burns.

Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye damage.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive Toxicity

**Product:** No components toxic to reproduction

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other Effects: None known.

## 12. Ecological information

#### **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

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**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD** Ratio

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: No data available.

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:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.

## 14. Transport information

DOT

Not regulated.

**IMDG** 

Not regulated.

IATA

UN Number: UN 1910
Proper Shipping Name: Calcium oxide

Transport Hazard Class(es):

Class(es): 8
Label(s): 8
Marine Pollutant: No
Packing Group: III

## 15. Regulatory information

#### **US Federal Regulations**

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# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

## CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

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

#### **Hazard categories**

X Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

#### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

#### **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

## SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantityCALCIUM OXIDE500 lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

## **US State Regulations**

## **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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

CALCIUM OXIDE Listed

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

CALCIUM OXIDE Listed

#### US. Pennsylvania RTK - Hazardous Substances

CALCIUM OXIDE Listed

#### US. Rhode Island RTK

CALCIUM OXIDE Listed

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## **Inventory Status:**

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

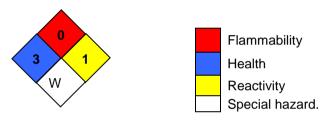
Japan Pharmacopoeia Listing:

On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory

Not in compliance with the inventory.

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

#### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

W: Water-reactive

**Issue Date**: 10-10-2014

**Revision Date:** No data available.

Version #: 1.0

Further Information: No data available.

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#### **Disclaimer:**

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