

 Safety Data Sheet

 According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Revision Date: 06/26/2024
 Date of Issue: 09/11/2012

Version: 3.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture Product Name: Slag Cement

1.2. Intended Use of the Product

Use of the Substance/Mixture: No use is specified

1.3. Name, Address, and Telephone of the Responsible Party

Company

CalPortland Company 10655 W Park Run Drive, Suite 275 Las Vegas, NV 89144 T 626-852-6200 www.calportland.com

1.4. Emergency Telephone Number

: 626-852-6200

SECTION 2: HAZARDS IDENTIFICATION

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	2.1.	Classification of the	e Substance or Mixture
	Skin Irri	it. 2	H315
	Eye Dai	m. 1	H318
	STOT SI	E 3	H335
	Aquatio	c Acute 3	H402
	Full text	of hazard classes and	H-statements : see section 16

2.2. Label Elements

Emergency Number

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) Hazard Statements (GHS-US)

Precautionary Statements (GHS-US)

- : Danger
- : H315 Causes skin irritation. H318 - Causes serious eye damage.
 - H335 May cause respiratory irritation.
 - H402 Harmful to aquatic life.
- : P261 Avoid breathing dust.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Get medical advice/attention.
- P321 Specific treatment (see section 4 on this SDS).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Calcium oxide	(CAS-No.) 1305-78-8	39 - 43	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Silica, amorphous	(CAS-No.) 7631-86-9	31 - 35	Not classified
Aluminum oxide (Al2O3)	(CAS-No.) 1344-28-1	13 - 15	Not classified
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4	6 - 8	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes skin irritation. May cause respiratory irritation. Causes serious eye damage.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. When this product is wet it is corrosive.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** May release corrosive vapors.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Do not get in eyes or on skin.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

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6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive when wet.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing dust. Avoid contact with eyes and skin. Do not get in eyes or on skin. **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry place. Keep/Store away from incompatible materials. **Incompatible Materials:** Strong acids. Strong oxidizers.

7.3. Specific End Use(s)

No use is specified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Calcium oxid	Calcium oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³	
USA IDLH	US IDLH (mg/m ³)	25 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m ³	
Silica, amorp	hous (7631-86-9)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³	
USA IDLH	US IDLH (mg/m ³)	3000 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m ³ /%SiO ₂)	
Aluminum ox	kide (Al2O3) (1344-28-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)	
		5 mg/m ³ (respirable fraction)	
Magnesium o	Magnesium oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA IDLH	US IDLH (mg/m ³)	750 mg/m³ (fume)	
USA OSHA	USA OSHA OSHA PEL (TWA) (mg/m ³) 15 mg/m ³ (fume, total particulate)		

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal Protective Equipment	: Gloves. Protective clothing. Protective goggles.
Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory
Other Information	protection.
	: When using, do not eat, drink or smoke.
SECTION 9: PHYSICAL AND CHEMIC	
9.1. Information on Basic Physical	•
Physical State	: Solid
Appearance	: Granular powder
Odor Odor Three held	: None
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
9.2. Other Information No addition:	

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4.** Conditions to Avoid: Direct sunlight and incompatible materials.
- 10.5. Incompatible Materials: Strong acids. Strong oxidizers.
- 10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classifiedCalcium oxide (1305-78-8)LD50 Oral Rat> 2000 mg/kgLD50 Dermal Rabbit> 2500 mg/kgSilica, amorphous (7631-86-9)LD50 Oral Rat7900 mg/kgLD50 Dermal Rabbit> 2000 mg/kgLD50 Dermal Rabbit> 2000 mg/kgLD50 Dermal Rabbit> 2000 mg/kg

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LD50 Oral Rat	> 15900 mg/kg
LC50 Inhalation Rat	> 2.3 mg/l/4h No deaths were reported.
Magnesium oxide (MgO) (1309-48-4)	
LD50 Oral Rat 3870 mg/kg	

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Silica, amorphous (7631-86-9)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. When this product is wet it is corrosive.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity			
Ecology - General	: Harmful to aquatic life.		
Calcium oxide (1305-78-8)			
LC50 Fish 1	50.6 mg/l		
Silica, amorphous (7631-86-9)			
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])		
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)		
Aluminum oxide (Al2O3) (1344-28-1)			
LC50 Fish 1	> 100 mg/l		
EC50 Daphnia 1	> 100 mg/l		
ErC50 (Algae)	> 100 mg/l		
NOEC (Acute) > 50 mg/l			
12.2. Persistence and Degradability	12.2. Persistence and Degradability		
Slag Cement			
Persistence and Degradability	Not established.		
12.3. Bioaccumulative Potential	12.3. Bioaccumulative Potential		
Slag Cement			
Bioaccumulative Potential	Not established.		
Calcium oxide (1305-78-8)			
BCF Fish 1	(no bioaccumulation)		
Silica, amorphous (7631-86-9)	Silica, amorphous (7631-86-9)		
BCF Fish 1	(no bioaccumulation expected)		

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

: Avoid release to the environment.

Additional Information: Continue to observe all precautions.

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Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name		CALCIUM OXIDE
Hazard Class	:	8
Identification Number	:	UN1910
Label Codes	:	8
Packing Group	:	III
ERG Number	:	157
14.2. In Accordance with IMDG		DG
Proper Shipping Name	:	CALCIUM OXIDE
Hazard Class	:	8
Identification Number		UN1910
Label Codes	:	8



14.3. In Accordance with IATA

Proper Shipping Name	: CALCIUM OXIDE
Packing Group	: 111
Identification Number	: UN1910
Hazard Class	: 8
Label Codes	: 8
ERG Code (IATA)	: 8L

SECTION 15: REGULATORY INFORMATION

15.1.	US Fede	eral Regu	lations
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Slag Cement		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
Calcium oxide (1305-78-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Silica, amorphous (7631-86-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Aluminum oxide (Al2O3) (1344-28-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Subject to reporting requirements of United States SARA Section 313		
SARA Section 313 - Emission Reporting 1 % (fibrous forms)		
Magnesium oxide (MgO) (1309-48-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. US State Regulations

WARNING: This product can expose you to chemicals, including Silica, crystalline (airborne particles of respirable size), which is known to the State of California to cause cancer; and chromium (hexavalent compounds), which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Calcium oxide (1305-78-8)	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Substance List	
U.S Pennsylvania - RTK (Right to Know) List	
Silica, amorphous (7631-86-9)	
U.S Massachusetts - Right To Know List	
U.S Pennsylvania - RTK (Right to Know) List	
Aluminum oxide (Al2O3) (1344-28-1)	

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- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Magnesium oxide (MgO) (1309-48-4)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision Other Information : 08/09/2018

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

Hazardous to the aquatic environment - Acute Hazard Category 3
Serious eye damage/eye irritation Category 1
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Causes skin irritation
Causes serious eye damage
May cause respiratory irritation
Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)