

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: 07/31/2018

Version: 2.0

# **SECTION 1: IDENTIFICATION**

1.1. Product Identifier Product Form: Mixture Product Name: Iron Ore

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

Emergency Number : 626-852-6200

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the Substance or Mixture

Comb. Dust

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

**GHS-US Labeling** 

Signal Word (GHS-US) : Warning

**Hazard Statements (GHS-US)** : May form combustible dust concentrations in air.

2.3. Other Hazards

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

2.4. Unknown Acute Toxicity (GHS-US)

No data available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1. Substance

Not applicable

# 3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Iron oxide (Fe2O3)	(CAS-No.) 1309-37-1	85	Comb. Dust
Iron oxide (Fe3O4)	(CAS-No.) 1317-61-9	15	Comb. Dust

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:** Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Obtain medical attention if irritation persists or develops.

**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 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical 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: Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Dust may be harmful or cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

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Chronic Symptoms: Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

### 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: Use extinguishing media appropriate for surrounding fire.

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: Combustible Dust.

Explosion Hazard: Dust explosion hazard in air.

**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:** Metal oxides. **Other Information:** Risk of dust explosion.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes and skin. Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

### 6.1.1. For Non-Emergency Personnel

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

**Emergency Procedures:** Evacuate unnecessary personnel.

### 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.

# 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. Avoid generation of dust during clean-up of spills.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools.

#### 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:** Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

**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 prolonged contact with eyes and skin. Avoid breathing dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

**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. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Hydrogen peroxide. Calcium hypochlorite. Carbon monoxide.

### 7.3. Specific End Use(s)

No use is specified

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# 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).

Iron oxide (Fe2O3) (1309-37-1)			
<b>USA ACGIH</b>	ACGIH TWA (mg/m³)	5 mg/m³ (respirable particulate matter)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³ (dust and fume)	
USA IDLH	US IDLH (mg/m³)	2500 mg/m³ (dust and fume)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³ (fume)	
		15 mg/m³ (total dust)	
		5 mg/m³ (respirable fraction)	

# 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. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

**Personal Protective Equipment** 

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









**Materials for Protective Clothing** 

**Hand Protection** 

Eye and Face Protection

**Respiratory Protection** 

**Skin and Body Protection** 

: Chemically resistant materials and fabrics.

: Wear protective gloves.

: Chemical safety goggles.

: Wear suitable protective clothing.

: 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 protection.

Other Information : When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

**Appearance** : Red to black granular powder

Odor : None

Odor Threshold: No data availablepH: No data availableEvaporation Rate: No data availableMelting Point: No data availableFreezing Point: No data availableBoiling Point: No data availableFlash Point: No data available

Auto-ignition Temperature: No data availableDecomposition Temperature: No data availableFlammability (solid, gas): No data available

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Vapor Pressure: No data availableRelative Vapor Density at 20°C: No data availableRelative Density: No data availableSolubility: Negligible.Partition Coefficient: N-Octanol/Water: No data available

**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, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard).

: No data available

- 10.5. Incompatible Materials: Hydrogen peroxide. Calcium hypochlorite. Carbon monoxide.
- **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 classified

Iron oxide (Fe2O3) (1309-37-1)	
<b>LD50 Oral Rat</b> > 10000 mg/kg	
Iron oxide (Fe3O4) (1317-61-9)	
LD50 Oral Rat	> 10000 mg/kg

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Iron oxide (Fe2O3) (1309-37-1)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** Dust may be harmful or cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

## SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecology - General : Not classified.

Iron oxide (Fe3O4) (1317-61-9)	
LC50 Fish 1	>= 10000 mg/l (96h, Brachydanio rerio; OECD 203)

# 12.2. Persistence and Degradability

Iron Ore	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

Iron Ore	
Bioaccumulative Potential	Not established.

### **12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

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# **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.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

### **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 Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

# 15.1. US Federal Regulations

13.1. O3 rederal negulations		
Iron Ore		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Sudden release of pressure hazard	
	Delayed (chronic) health hazard	
Iron oxide (Fe2O3) (1309-37-1)		
Listed on the United States TSCA (Toxic Substance	es Control Act) inventory	
Iron oxide (Fe3O4) (1317-61-9)		
Listed on the United States TSCA (Toxic Substance	es Control Act) inventory	

## 15.2. US State Regulations



**WARNING:** This product can expose you to chemicals including Silica, crystalline (airborne particles of respirable size), a chemical known to the State of California to cause cancer; and Lead and Lead 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.

### Iron oxide (Fe2O3) (1309-37-1)

- 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 : 07/31/2018

 Other Information
 : 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:** 

Comb. Dust	Combustible Dust
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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 quaranteeing any specific property of the product.

SDS US (GHS HazCom)

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