



# MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division  
Cleveland Operation  
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Cleveland, Ohio 44112 USA

**Emergency telephone number**  
CHEMTREC: 1-800-424-9300

Plant Number: 1-216-750-7020

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** Ca/Zn Stearate 1580 40x50 Lb Bag  
**Chemical Family:** Stearate  
**CAS-No.:** Mixture  
**Product code:** 1036106

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Exposure limits

Components	CAS-No	Weight %	OSHA	ACGIH
Calcium Stearate	1592-23-0	50 - 60%	Not established	10 mg/m <sup>3</sup> TWA
Zinc Stearate	557-05-1	50 - 60%	Not established	10 mg/m <sup>3</sup> TWA

OSHA particulate (not otherwise regulated) limit: 5 mg/m<sup>3</sup> (respirable); 15 mg/m<sup>3</sup> (total).

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Caution

NFPA 704

<b>Color:</b> White	<b>Health:</b> 1
<b>Physical state:</b> Powder	<b>Fire:</b> 1
<b>Odour:</b> Slight	<b>Instability:</b> 0

May cause irritation of respiratory tract. May cause eye/skin irritation.

### Potential Health Effects

**Principle routes of exposure:** Eye contact. Skin contact. Inhalation.

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** Prolonged skin contact may cause skin irritation.

**Inhalation:** Over-exposure by inhalation may cause respiratory irritation.

**Ingestion:** May irritate digestive tract.

**Chronic toxicity:** No known effects under normal conditions of use.

### HMIS

**Health:** 1  
**Fire:** 1  
**Physical hazard:** 0  
**PPE:** E

## 4. FIRST AID MEASURES

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin contact:** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

**Notes to physician:** Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

**Flash point:** > 260 °C ( 518°F) Method: COC

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam. Do not use a solid water stream as it may scatter and spread fire.

**Hazardous decomposition products:** Carbon oxides. ZnO.

**Unusual hazards:** Avoid dust formation. High dust formation may present and explosion hazard.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition. Do not breathe vapors/dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not let product enter drains.

**Methods for cleaning up:** Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid dust formation. Do not breathe vapours/dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure that eyewash stations and safety showers are proximal to the work-station location. Provide appropriate exhaust ventilation at places where dust or fume is formed.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection:** Impervious gloves.

**Skin and body protection:** Lightweight protective clothing.

**Eye protection:** Safety glasses with side-shields. Avoid contact with eyes.

**Exposure limits:** See Section 2.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	White	<b>Physical state:</b>	Powder
<b>Odour:</b>	Slight	<b>Molecular weight:</b>	No data available
<b>Boiling point/range (°C):</b>	No data available	<b>pH:</b>	No data available
<b>Melting point/range (°C):</b>	112 - 119	<b>Specific gravity (Water =1):</b>	> 1.000
<b>Vapor pressure (mmHg):</b>	No data available	<b>Evaporation rate (Water =1):</b>	No data available
<b>Water solubility (mg/l):</b>	Insoluble	<b>VOC content (%)</b>	No data available

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions

**polymerization:** None under normal processing

**Hazardous decomposition products:** Carbon oxides. Heavy metal compounds.

**Materials to avoid:** Strong oxidizing agents.

**Conditions to avoid:** Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

Component information, if any, is listed below

#### Calcium Stearate

**NIOSH - LD50s and LC50s:** > 10 g/kg Oral LD50 Mouse  
> 10 g/kg Oral LD50 Rat

**ACGIH - Carcinogens:** A4 - Not Classifiable as a Human Carcinogen (does not include stearates of toxic metals)

#### Zinc Stearate

**NIOSH - LD50s and LC50s:** > 10 g/kg Oral LD50 Mouse  
> 10 g/kg Oral LD50 Rat

**ACGIH - Carcinogens:** A4 - Not Classifiable as a Human Carcinogen (does not include stearates of toxic metals)

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** No information available

**Persistence and degradability:** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

## 14. TRANSPORT INFORMATION

### DOT:

**Proper shipping name:** Not regulated.

### TDG (Canada):

**Proper shipping name:** Not regulated.

## 15. REGULATORY INFORMATION

### U.S. Regulations:

**Not subject to TSCA 12(b) Export Notification**

Zinc Stearate (50 - 60%)

**SARA 313:** 1.0 percent de minimis concentration (Chemical Category N982)

1.0 percent de minimis concentration (only fume or dust)

### State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Zinc Stearate (50 - 60%)

**NJRTK:** sn 2021 (dust and fume)

**PARTK:** Listed

### Canadian WHMIS

WHMIS hazard class: Non-controlled.

**Components**

Zinc Stearate (50 - 60%)

**WHMIS Ingredient Disclosure:**

1%

**International Inventories**

TSCA 8(b): All the ingredients are on the TSCA list.

Canadian DSL: All the ingredients are on the DSL.

EINECS: All the ingredients are on the EINECS list.

Phillipines (PICCS): Listed.

Japan (ENCS): Listed.

Korea (KECL): Listed.

China (IECS): Listed.

Australia (AICS): Listed.

**16. OTHER INFORMATION**

**For Industrial Use Only**

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

**End of Safety Data Sheet**