



# MATERIAL SAFETY DATA SHEET

Ferro Corporation, Fine Chemicals Division  
Baton Rouge Operation  
111 West Irene Road  
Zachary, LA 70791 USA

**Emergency telephone number:**  
CHEMTREC: 1-800-424-9300  
  
Plant Number: 1-225-654-6801

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

**Product Name:** Ca Stearate CW-1250 Date of Preparation: 10/06/2003  
**Chemical Name:** Calcium Stearate  
**Synonyms:** Metal soap in water. Octadecanoic acid, calcium salt.  
**CAS-No.:** Mixture

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Exposure limits

Components	CAS-No	Weight %	OSHA	ACGIH
Water	7732-18-5	40 - 50%	Not established	Not established
Calcium Stearate	1592-23-0	50 - 60%	Not established	10 mg/m <sup>3</sup> TWA does not include stearates of toxic metals

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Caution

NFPA 704

<b>Color:</b> White	<b>Health:</b> 0
<b>Physical state:</b> Liquid	<b>Fire:</b> 0
<b>Odor:</b> Fatty slight	<b>Instability:</b> 0

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

### Potential Health Effects

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

#### Eye contact:

Contact with eyes may cause irritation.

#### Skin contact:

May cause skin irritation in susceptible persons.

#### Inhalation:

Breathing of mists, vapors, or fumes may irritate the nose, throat and lungs.

#### Ingestion:

Gastrointestinal disturbance. Irritating to mouth, throat and stomach.

#### Chronic toxicity:

No known effects under normal conditions of use.

**HMIS**

Health: 0

Fire: 0

Physical hazard: 0

PPE: B

**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 soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

**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. Induce vomiting if person is conscious. Call a physician immediately.

**Notes to physician:**

Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**Flash point:** 300 °C ( 572°F) Method: COC

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

**Hazardous decomposition products:**

Carbon dioxide (CO<sub>2</sub>). CaO.

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

**Unusual hazards:**

Burning produces irritant fumes.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**

Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

**Environmental precautions:**

Do not allow material to contaminate ground water system. Prevent product from entering drains.

**Methods for cleaning up:**

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**7. HANDLING AND STORAGE****Handling:**

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:**

Ensure that eyewash stations and safety showers are proximal to the work-station location. Provide adequate ventilation.

**Respiratory protection:**

Use NIOSH approved respirator when ventilation is inadequate.

**Hand protection:**

Impervious gloves.

**Skin and body protection:**

Lightweight protective clothing.

**Eye protection:**

Safety glasses with side-shields.

**Exposure limits:**

See Section 2.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	White
<b>Odor:</b>	Fatty slight
<b>pH:</b>	No data available
<b>Molecular weight:</b>	No data available
<b>Boiling point/range (°C):</b>	Not determined
<b>Specific gravity (Water =1):</b>	1.000
<b>Vapor density (Air=1):</b>	0.62
<b>Vapor pressure (mmHg):</b>	17.5000 @ 20 °C
<b>Evaporation rate (Water =1):</b>	1.00
<b>Water solubility (mg/l):</b>	Completely soluble
<b>VOC content (%)</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions
<b>Polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Carbon dioxide (CO <sub>2</sub> ). CaO.
<b>Materials to avoid:</b>	Strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

No data is available on the product itself.

**Eye irritation:**

Contact with eyes may cause irritation.

**Skin irritation:**

May cause skin irritation in susceptible persons.

**Carcinogenic effects:**

Not listed by IARC, NTP or OSHA as a carcinogen.

**Calcium Stearate**

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

> 10 gm/kg Oral LD50 Rat

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

**12. ECOLOGICAL INFORMATION**

No data is available on the product itself.

**Aquatic toxicity:**

No information available.

**Persistence and degradability:**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products:**

Dispose of according to all federal, state and local applicable 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 the provisions of SARA 313 Title III.

Not subject to TSCA 12(b) Export Notification

**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.

**Canadian WHMIS**

WHMIS hazard class: Non-controlled

**International Inventories**

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

Canadian DSL: All the ingredients are on the DSL.

EINECS: One or more ingredients do not appear on EINECS.  
Phillipines (PICCS): Listed.  
Japan (ENCS): Not listed.  
Korea (KECL): Listed.  
China: 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**