



MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division
Ft. Worth Operation
510 E. Central Avenue
Ft. Worth, TX 76106 USA

Emergency telephone number
CHEMTREC: 1-800-424-9300
CHEMTREC (outside U.S.): 1-703-527-3887
Plant Number: 1-817-625-2894

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

Product Name: Zn Stearate 44 HS 40x50 Lb Bag
Chemical Family: Stearate
Chemical Name: Zinc Stearate
Synonyms: Octadecanoic acid, zinc salt.
Formula: C36H70O4Zn
CAS-No.: 557-05-1
Product code: 1036252

Date of Preparation: 04/23/2007

2. HAZARD IDENTIFICATION

Emergency Overview

Caution
May cause irritation of respiratory tract. May cause eye/skin irritation. Concentrated airborne dust may present an explosion hazard.
NFPA 704

| | | | |
|------------------------|--------|---------------------|---|
| Colour: | White | Health: | 1 |
| Physical state: | Powder | Fire: | 1 |
| Odour: | Mild | Instability: | 0 |

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS Number | Weight % |
|---------------|------------|----------|
| Zinc Stearate | 557-05-1 | 100% |

4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water. 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.

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5. FIRE-FIGHTING MEASURES

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

Autoignition temperature (°C): 421

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Hazardous decomposition products: Carbon oxides. Heavy metal compounds. Metal fumes.

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: Concentrated dust may present an 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 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. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Consult NFPA 654 for further information regarding the prevention of dust explosion hazards.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

| Components | OSHA | ACGIH |
|---------------|--|--------------------------|
| Zinc Stearate | 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) | 10 mg/m ³ TWA |

Engineering measures: Provide appropriate exhaust ventilation at places where dust or fume is formed.

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

Skin and body protection: Lightweight protective clothing.

Hand protection: Impervious gloves.

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

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| | | | |
|---------------------------|-------------------|--|-------------------|
| Colour: | White | Physical state: | Powder |
| Odour: | Mild | Molecular weight: | 632.33 |
| Boiling point/range (°C): | No data available | pH: | No data available |
| Melting point/range (°C): | 120 - 132 | Specific gravity (Water =1): | > 1.000 |
| Vapor pressure (mmHg): | 0.0000 | Evaporation rate (Water =1): | No data available |
| Water solubility (mg/l): | Not significant | Partition coefficient (n-octanol/water): | 1.20 |
| VOC content (%) | No data available | | |

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Polymerization: None under normal processing

Hazardous decomposition products: Carbon oxides. Metal fumes.

Materials to avoid: Strong oxidizing agents.

Conditions to avoid: Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: ..

LD50/oral/rat = > 5000 mg/kg

LD50/dermal/rat = > 2000 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity: Not determined

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 (U.S.)

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

| Components | SARA 313: |
|----------------------|---|
| Zinc Stearate (100%) | 1.0 percent de minimis concentration (Chemical Category N982) |

requirements. Substances that are subject to notification requirements, if any, are listed below.

| Components | State Regulations - NJ; PA; CA Prop65 |
|-------------------|--|
| Zinc Stearate | Listed (PARTK) |

Canadian WHMIS

WHMIS hazard class: Non-controlled.

Canadian Ingredient Disclosure List (IDL): Not Listed.

International Inventories

TSCA 8(b): Listed or exempt.
Canadian DSL: Listed or exempt.
EINECS: Listed or exempt.
Phillipines (PICCS): Listed.
Japan (ENCS): Listed or exempt.
Korea (KECL): Listed.
China (IECS): Listed.
Australia (AICS): Listed.

16. OTHER INFORMATION

For Industrial Use Only

HMIS

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

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

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