



MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division
 Cleveland Operation
 1636 Wayside Road
 Cleveland, Ohio 44112 USA

Emergency telephone number
 CHEMTREC: 1-800-424-9300
 CHEMTREC (outside U.S.): 1-703-527-3887
 Plant Number: 1-216-531-6010

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

Product Name: Therm-Chek® SP1314 100 Lb Drm **Date of Preparation:** 11/14/2011
Chemical Family: Stabilizer
Chemical Name: PVC Powder Stabilizer
CAS-No.: Mixture
Product Code: 1035929

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

May cause respiratory tract, eye and skin irritation. Avoid dust formation. May cause physical irritation.

		HMIS	NFPA 704
Color:	White	2	2
Physical state:	Powder	1	1
Odor:	Mild	0	0
		E	

Potential Health Effects

Principle routes of exposure: Inhalation, ingestion, skin and eye contact.

Eye contact: Moderately irritating to the eyes.

Skin contact: Prolonged skin contact may cause skin irritation and/or dermatitis.

Inhalation: Product dust may be irritating to eyes, skin and respiratory system. Over-exposure by inhalation may cause respiratory irritation.

Ingestion: May irritate digestive tract.

Chronic toxicity: Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Stearate		75 - 85%

The specific chemical identities are being withheld as a trade secret (29CFR1910.1200).

4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

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

Ingestion: Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point (°C): >260 (500°F) Method: PMCC

Suitable extinguishing media: Use dry chemical, CO₂, water spray or "alcohol" foam. The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors. Heavy metal compounds. Carbon oxides. ZnO.

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: None known.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid contact with skin, eyes and clothing. Evacuate area of all unnecessary personnel. Ensure adequate ventilation. Wear personal protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Wear personal protective equipment. Use approved industrial vacuum cleaner for removal. Clean contaminated surface thoroughly. Dispose of promptly.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Remove all sources of ignition. Take precautionary measures against static discharges. Do not take internally. Wash thoroughly after handling.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Minimize exposure in accordance with good hygiene practice.

Components	OSHA	ACGIH
Stearate	15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction	10 mg/m ³ TWA except stearates of toxic metals

Engineering measures: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Eye protection: Safety glasses with side-shields.

Skin and body protection: Lightweight protective clothing.

Hand protection: Impervious gloves.

Respiratory protection:

Use NIOSH approved respirator when ventilation is inadequate. In case of insufficient ventilation wear suitable respiratory equipment. Seek professional advice prior to respirator selection and use. NIOSH-approved respirators should be worn where engineering controls and work practices do not reduce exposure to or below the PEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	White	Physical state:	Powder
Odor:	Mild	Molecular weight:	No data available
Boiling point/range (°C):	No data available	pH:	No data available
Melting point/range (°C):	No data available	Specific gravity (Water =1):	> 1.000
Vapor pressure :	No data available	Water solubility:	Insoluble
VOC content (%)	No data available		

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Polymerization	Will not occur.
Hazardous decomposition products:	None under normal use. Thermal decomposition can lead to release of irritating gases and vapors. Heavy metal compounds. Carbon oxides.
Materials to avoid:	Strong oxidizing agents.
Conditions to avoid	Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Information given is based on data on the components and the toxicology of similar products
Carcinogenic Effects:	Not listed by IARC, NTP or OSHA as a carcinogen.
Component information, if any, is listed below	
Stearate	
LD50s and LC50s:	Dermal LD50 (Rabbit) = 2000 mg/kg Oral LD50 (Rat) = 5000 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No data is available on the product itself. Information given is based on data on the components and the ecotoxicology of similar products.
Persistence and degradability:	Not determined

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.
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14. TRANSPORT INFORMATION

DOT (U.S.)

Proper shipping name: Not regulated.

TDG (Canada)

Proper shipping name: Not regulated.

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

U.S. Regulations:

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

SARA 313:

Components	U.S. - CERCLA/SARA - Section 313 - Emission Reporting
Zinc compounds (10 - 20%)	1.0 % de minimis concentration

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.

Components	PARTK:
Zinc compounds	Listed (PARTK)

Components	NJRTK:
Stearate	Listed (NJRTK)
Zinc compounds	Listed (NJRTK)

Canadian WHMIS

WHMIS hazard class: D2B Toxic materials

Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Stearate	1

International Inventories

- TSCA 8(b):** Listed or exempt.
- Canadian DSL/NDSL list:** All ingredient(s) are listed on the DSL or NDSL
- EC-No.** Listed or exempt.
- Philippines (PICCS):** One or more ingredient(s) are not on the PICCS list.
- Japan (ENCS):** Listed or exempt.
- Korea (KECL):** One or more ingredient(s) are not on the KECL list.
- China (IECS):** One or more ingredient(s) are not on the IECS list.
- Australia (AICS):** Listed.
- New Zealand (NZIoC):** One or more ingredient(s) are not on the NZIoC list.

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