

MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division Walton Hills Operation 7050 Krick Road Walton Hills, Ohio 44146-4494 USA Emergency telephone number

CHEMTREC: 1-800-424-9300

Plant Number: 1-216-750-6708

NAMES AND DESCRIPTION OF THE PROPERTY SHARE DESCRIPTION OF THE PROPERTY OF THE

Product Name:

Therm-Chek® 6317

Date of Preparation: 07/21/2005

Chemical Family:

Polymer Additive

Chemical Name:

Barium, Zinc Complex Mixture

CAS-No.: Product code: Mixture 1035515

Emergency Overview

Caution

May cause eye/skin irritation. Avoid contact with the skin and the eyes. May be harmful if absorbed through skin.

NFPA 704

Colour:

Colorless

Health:

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Physical state: Odour: Liquid Mild Fire: Instability: 1 0

Potential Health Effects

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

Eye contact: May cause slight irritation.

Skin contact: Prolonged skin contact may cause skin irritation and/or dermatitis. May be harmful if absorbed through skin.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May irritate digestive tract.

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

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Components	CAS Number	Weight %	
Barium compounds		10 - 20%	
Zinc compounds		10 - 20%	
Phenol	108-95-2	1 - 5%	
Petroleum based hydrocarbon		1 - 5%	

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

This material contains organo phosphorous compounds which may decompose from hydrolysis to produce phenol, aliphatic alcohol, and phosphoric acid.

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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 not breathing, give artificial respiration. If symptoms persist, call a physician.

Product name: Therm-Chek® 6317

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Ingestion: Drink plenty of water. Consult a physician if necessary. Do not induce vomiting without medical advice.

Notes to physician: Treat symptomatically.

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Flash point: 106 °C (223°F) Method: PMCC

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

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

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: Material may change or decompose on exposure to moisture.

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Personal precautions: Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

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

Methods for cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Dispose of promptly. Clean contaminated surface thoroughly.

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Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothlng. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

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Exposure limits:

Components	OSHA	ACGIH
Phenol	19 mg/m³ TWA	5 ppm TWA
	5 ppm TWA	Skin - potential significant contribution to overall exposure
	prevent or reduce skin absorption	by the cutaneous route
Barium compounds, as Ba	0.5 mg/m³ TWA	0.5 mg/m³ TWA
Petroleum based hydrocarbon	5 mg/m³ TWA (mineral oil mist)	5 mg/m³ TWA (mineral oil mlst)
triphenyl phosphate	3 mg/m³ TWA	3 mg/m³ TWA

Engineering measures: Ensure adequate ventilation, especially in confined areas.

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.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are proximal to the work-station location. Wash hands before breaks and immediately after handling the product.

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Colour:

Colorless

Odour:

Mild

Boiling point/range (°C):

No data available

Specific gravity (Water =1): Evaporation rate (Water =1):

1.070 < 1.00

VOC content (%)

No data available

Physical state:

Molecular weight:

Vapor pressure (mmHg):

Water solubility (mg/l):

Liquid No data available

No data available

No data available Insoluble

Stability: Stable at normal conditions.

Polymerization: Will not occur.

Hazardous decomposition products: None under normal use. Possible decomposition products from hydrolysis:. phenol, aliphatic alcohol, phosphoric acid.

Materials to avoid: Strong oxidizing agents. Strong acids and strong bases. Water.

Conditions to avoid: Exposure to moisture.

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Acute toxicity: No data is available on the product itself

Target Organ Effects: Barium compound: Heart, gastrointestinal tract. Phenol: Central nervous system, liver, kidneys.

Aquatic toxicity: Not determined

Persistence and degradability: Not determined

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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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DOT

UN/ID No: UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (Triphenyl phosphate)

U.S. DOT - Hazard Class: 9 Marine pollutant

Packing group: III

Other shipping information: This material meets the definition of a marine pollutant. Applies to containers for shipments in bulk or via water transportation.

triphenyl phosphate (1 - 5%)

DOT Severe Marine Pollutants: Listed

TDG (Canada)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (Triphenyl phosphate)

Hazard class: 9

Packing group: III

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U.S. Regulations:

Not subject to TSCA 12(b) Export Notification

Components	SARA 313:
Barium compounds (10 - 20%)	1.0% de minimis concentration (Chemical Category N040)
Barium compounds, as Ba (1 - 5%)	1.0% de minimis concentration (Chemical Category N040)
Zinc compounds (10 - 20%)	1.0% de minimis concentration (Chemical Category N982)
Zinc compounds, as Zn (1 - 5%)	1.0% de mínimis concentration (Chemical Category N982)
Phenol (1 - 5%)	1.0 percent de minimis concentration

<u>State Regulations</u>
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	NJRTK:	PARTK:	Cal Prop65:
Barium compounds	2146 (1.0%)	Listed	N/A
Zinc compounds	3012	Listed	N/A
Triphenyl phosphite	N/A	N/A	N/A
Phenol	sn 1487	Listed	N/A
Benzoic acid	sn 0209	Listed	N/A
triphenyl phosphate	sn 1951	Listed	N/A

Canadian WHMIS

WHMIS hazard class: D2B Toxic materials.

Components	WHMIS Ingredient Disclosure:
Triphenyl phosphite	1%

Phenol 1% Benzolc acid 1% triphenyl phosphate 1%

International Inventories

TSCA 8(b): Listed or exempt. Canadian DSL: Listed or exempt. EINECS: Listed or exempt. Phillipines (PICCS): Listed. Japan (ENCS): Not listed. Korea (KECL): Listed. China (IECS): Listed. Australia (AICS): Listed.

For Industrial Use Only

HMIS Health: 1 Fire: 1

Physical hazard: 0

PPE: B

Prepared by: Ferro Technical Center

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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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