



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

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

Product Name: Therm-Chek® 848 Date of Preparation: 01/07/2004
Chemical Family: Organotin compound
Chemical Name: Butyltin Thioglycolate
CAS-No.: 25168-24-5

2. COMPOSITION / INFORMATION ON INGREDIENTS

Exposure limits

Components	CAS-No	Weight %	OSHA	ACGIH
Organotin compound		100%	0.1 mg/m ³ TWA (as Sn)	0.1 mg/m ³ TWA (as Sn) 0.2 mg/m ³ STEL (as Sn)

3. HAZARDS IDENTIFICATION

Emergency Overview

Caution

NFPA 704

Color: Yellow	Health: 2
Physical state: Liquid	Fire: 0
Odor: Mild	Instability: 0

May cause eye/skin irritation. May be harmful if absorbed through skin.

Potential Health Effects

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

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. Elevated processing temperatures may release toxic vapors that are harmful if inhaled.

Ingestion:

May irritate digestive tract.

HMIS

Health: 2

Fire: 0

Product name: Therm-Chek® 848

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Physical hazard: 0
PPE: B

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

Ingestion:

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

Notes to physician:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: 284 °C (543°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. Carbon oxides. SnO.

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:

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 (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Dispose of promptly. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling:

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

Storage:

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

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

Respiratory protection:

Use NIOSH approved respirator when ventilation is inadequate.

Hand protection:

Impervious gloves.

Skin and body protection:

Lightweight protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Eye protection:

Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

Exposure limits:

See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Yellow
Odor:	Mild
pH:	No data available
Molecular weight:	No data available
Boiling point/range (°C):	No data available
Specific gravity (Water =1):	1.080
Vapor pressure (mmHg):	No data available
Evaporation rate (Water =1):	< 1
Water solubility (mg/l):	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.

Materials to avoid: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity**Target Organ Effects:**

Central nervous system. Immunotoxicity.

Component Information

Component information, if any, is listed below

Butyltin Thioglycolate

NIOSH - LD50s and LC50s:

= 500 mg/kg Oral LD50 Rat

ACGIH - Carcinogens: A4 - Not Classifiable as a Human Carcinogen (as Sn)

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:

UN/ID No: UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (organotin compounds)

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.

TDG (Canada):

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (organotin compounds)

Hazard class: 9 Marine pollutant

Packing group: III

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.

Organotin compound

NJRTK: Listed

PARTK: Listed

Canadian WHMIS

WHMIS hazard class: Non-controlled.

<u>Components</u>	<u>WHMIS Ingredient Disclosure List:</u>
Butyltin Thioglycolate	1%
Organotin compound	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