



<b>NFPA</b>	<b>OSHA HCS Risk Phrases</b>	<b>Personal Protective Equipment</b>
	CLASS: Irritating substance.	

**Section 1 Chemical Product and Company Identification**

<b>Common Name/ Trade Name</b> <b>Therm-Chek® 6241</b>	
<b>Manufacturer</b> Ferro Corporation, Polymer Additives Division Walton Hills Operation 7050 Krick Road Walton Hills, Ohio 44146-4494 USA	<b>Emergency Phone Numbers</b>  CHEMTREC: 1-800-424-9300  24 Hour Information: 1-216-641-5324  Plant-Week Days Only: 1-216-750-6708
<b>Chemical Name</b> Barium, Zinc Complex Mixture	
<b>Chemical Family</b> Polymer Additive	
<b>Synonym</b> Not available.	
<b>CAS#</b> Mixture	

**Section 2 Composition and Information on Ingredients**

INGREDIENTS	CAS #	% Weight	OSHA (PEL) ACGIH (TLV)
1) Mineral Spirits	8052-41-3	<1	TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 100 (ppm) from ACGIH (TLV) [United States]
2) Barium, soluble compounds (as Ba)	7440-39-3	<1	TWA: 0.5 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 0.5 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]
3) Zinc compounds (as Zn)	7440-66-6	<1	Not available.

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

**Section 3 Hazards Identification**

<b>Emergency Overview</b> Amber. (Light.) Phenolic-like. Liquid. (Clear)
<b>CAUTION!</b> MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
<b>Potential Health Effects</b>
<b>Acute</b> This product may irritate eyes and skin upon contact. May cause respiratory tract irritation. Avoid breathing vapor or mist. Can cause gastrointestinal irritation.
<b>Chronic</b> Repeated or prolonged exposure to the substance can produce central nervous system effects. Repeated skin exposure can produce dermatitis.

**Section 4 First Aid Measures**

<b>Eye</b>	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
<b>Skin</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Oxygen may be administered if breathing is difficult. Seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. Seek immediate medical attention.

**Section 5 Fire and Explosion Data**

<b>Flammability</b> Non-flammable.	<b>Flash Point</b> CLOSED CUP: 134°C (273.2°F). (Pensky-Martens.)
<b>Auto-ignition Temperature</b> Not available.	<b>Flammable Limits</b> Not available.
<b>Fire Fighting Media and Instructions</b>	Non-flammable substance. Use extinguishing media suitable for surrounding materials. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.

**Combustion Products** Some metallic oxides (Ba, Zn). carbon oxides (CO, CO<sub>2</sub>)

**Fire Hazards** When heated to decomposition it emits toxic fumes (barium and zinc oxides).

### Section 6 Accidental Release Measures

**Small Spill** Absorb with an inert material and place in an appropriate waste disposal container.

**Large Spill** Wear suitable protective clothing, gloves and eye/face protection. Prevent entry into sewers, basements or confined areas. Absorb with DRY earth, sand or other non-combustible material. Recycle to process, if possible.

#### Personal Protection

**Small Spill** Safety glasses. Gloves.

**Large Spill** Splash goggles. Suitable protective clothing. Gloves. Boots. Wear appropriate respirator when ventilation is inadequate.

### Section 7 Handling and Storage

**Precaution** Wear suitable gloves and eye/face protection. Use only in well-ventilated areas. Store away from incompatible materials.

**Storage** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Store away from incompatible materials.

### Section 8 Exposure Controls/Personal Protection

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection** Safety glasses. Gloves.

**Exposure Limits** See Section 2

### Section 9 Physical and Chemical Properties

<b>Physical state</b>	Liquid. (Clear)	<b>Odor</b>	Phenolic-like.
<b>pH (1% soln/water)</b>	Not applicable.	<b>Color</b>	Amber. (Light.)
<b>Boiling Point</b>	The lowest known value is 167.78°C (334°F) (Mineral Spirits).	<b>Specific Gravity</b>	0.976 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 0.3 kPa (@ 20°C) (Mineral Spirits).	<b>Vapor Density</b>	The highest known value is 4.9 (Air = 1) (Mineral Spirits).
<b>Volatility</b>	1% (w/w).	<b>Viscosity</b>	Not available.
<b>Evaporation rate</b>	<1 compared to Butyl acetate.	<b>Solubility</b>	Insoluble in cold water, hot water.

### Section 10 Stability and Reactivity Data

**Instability** The product is stable. **Will material polymerize?** Will not occur.

**Incompatibles** Reactive with oxidizing agents, acids, alkalis.

**Corrosivity** Not considered to be corrosive for glass and metals according to our data base.



### Section 11 Toxicological Information

**Routes of Entry** Skin contact. Eye contact. Inhalation.

**Toxicity to Animals** Acute oral toxicity (LD50): >2000 mg/kg [Rat]. (barium compound).  
Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. (barium compound).

**Acute Effects** This product may irritate eyes and skin upon contact. May cause respiratory tract irritation. Avoid breathing vapor or mist. Can cause gastrointestinal irritation.

**Chronic Effects** Repeated or prolonged exposure to the substance can produce central nervous system effects. Repeated skin exposure can produce dermatitis.

<b>Section 12 Ecological Information</b>									
Ecotoxicity	Not available.								
BOD5 and COD	Not available.								
Biodegradation	Not available.								
<b>Section 13 Disposal Considerations</b>									
Waste Disposal	Recycle, if possible. Dispose of according to all federal, state and local applicable regulations. This product is considered a RCRA hazardous waste if disposed as received. Barium - D005.								
<b>Section 14 Transport Information</b>									
DOT Description - Bulk	Not regulated by DOT.								
DOT Description - Non-Bulk	Not regulated by DOT.								
Reportable Quantity	CERCLA: Hazardous substances.: No products were found.								
WHMIS	CLASS D-2B: Material causing other toxic effects.								
WHMIS(Canada) Pictogram									
TDG(Canada) Pictogram									
<b>Section 15 Other Regulatory Information</b>									
USA Regulatory Lists	Pennsylvania RTK: Mineral Spirits Florida: Mineral Spirits Minnesota: Mineral Spirits Massachusetts RTK: Mineral Spirits New Jersey: Mineral Spirits New Jersey TSRN Number: Not available.								
SARA 313	Total Barium compounds: 1 - 10% Total Zinc compounds: 1 - 10%								
HMIS (U.S.A.)	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> <td>Fire Hazard</td> <td>0</td> <td>Reactivity</td> <td>0</td> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	Personal Protection	B
Health Hazard	1	Fire Hazard	0	Reactivity	0	Personal Protection	B		
TSCA 8(b) inventory CEPA EINECS Status	TSCA (Toxic Substance Control Act): This product or its components are listed on the TSCA Inventory. Canadian environmental protection act (CEPA): This product or its components appear on the Domestic Substances List (DSL) EINECS: This product or its components appear on the European Inventory of Existing Commercial Chemical Substances.								

<b>Section 16 Other Information</b>	
References	Not available.
Issued on 10/9/2000.	Printed 10/9/2000.
	MSDS PAD WH V3.1.1 Therm-Chek ®

**Notice to Reader**

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.

**Instructions to the customer/purchaser.**

This MSDS contains important environmental, safety and health information for your employees who will be using this product. Please give this information to them. If you resell this product, give a copy of this MSDS to the buyer.