



NFPA	OSHA HCS Risk Phrases	Personal Protective Equipment
	<p><b>CLASS:</b> Irritating substance.  <b>CLASS:</b> Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).</p>	

**Section 1 Chemical Product and Company Identification**

<b>Common Name/ Trade Name</b> Therm-Chek® SP 178	
<b>Manufacturer</b> Ferro Corporation, Polymer Additives Division Walton Hills Operation 7050 Krick Road Walton Hills, Ohio 44146-4494 USA	<u>Emergency Phone Numbers</u>  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) Petroleum Distillate (oil mist)		10-35	TWA: 5 (mg/m <sup>3</sup> ) from OSHA (PEL) [Oil Mist] TWA: 5 (mg/m <sup>3</sup> ) from ACGIH (TLV) [Oil Mist]
2) Barium, soluble compounds (as Ba)	108-95-2	5-10	TWA: 0.5 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]
3) Phenol		5-10	TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 5 (ppm) from OSHA (PEL) [United States] SKIN
4) Zinc compounds (as Zn)		1-5	Not available.

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

**Section 3 Hazards Identification**



<b>Emergency Overview</b>	<b>Color :</b> Amber.
<b>CAUTION!</b>	<b>Physical state :</b> Liquid. (Clear)
	<b>Odor :</b> Bland.
COMBUSTIBLE LIQUID. MAY CAUSE EYE AND SKIN IRRITATION.	
<b>Potential Health Effects</b>	
<b>Acute</b>	This product may irritate eyes and skin upon contact. Avoid breathing vapor or mist.
<b>Chronic</b>	There is no known effect from chronic exposure to this product. 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.

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<b>Section 5 Fire and Explosion Data</b>			
<b>Flash Point</b>	CLOSED CUP: 90°C (194°F). (Pensky-Martens.)		
<b>Flammability</b>	Combustible.		
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.		
<b>Combustion Products</b>	Some metallic oxides (Ba, Zn). carbon oxides (CO, CO <sub>2</sub> )		
<b>Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits toxic fumes (barium and zinc oxides).		
<b>Section 6 Accidental Release Measures</b>			
<b>Small Spill</b>	Absorb with an inert material and place in an appropriate waste disposal container.		
<b>Large Spill</b>	Combustible material. Wear suitable protective clothing, gloves and eye/face protection. Prevent entry into sewers, basements or confined areas. Keep away from heat, sparks and flame. Absorb with DRY earth, sand or other non-combustible material.		
<b>Personal Protection</b>			
<b>Small Spill</b>	Safety glasses. Gloves.		
<b>Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Wear appropriate respirator when ventilation is inadequate.		
<b>Section 7 Handling and Storage</b>			
<b>Precaution</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas, fumes, vapor or spray. Wear suitable gloves and eye/face protection. May react in presence of moisture.		
<b>Storage</b>	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store away from incompatible materials.		
<b>Section 8 Exposure Controls/Personal Protection</b>			
<b>Engineering Controls</b>	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.		
<b>Personal Protection</b>	Safety glasses. Gloves.		
<b>Exposure Limits</b>	See Section 2		
<b>Section 9 Physical and Chemical Properties</b>			
<b>Physical state</b>	Liquid. (Clear)	<b>Odor</b>	Bland.
<b>pH (1% soln/water)</b>	Not applicable.	<b>Color</b>	Amber.
<b>Boiling Point</b>	Not available.	<b>Specific Gravity</b>	1.056 (Water = 1)
<b>Vapor Pressure</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Volatility</b>	7% (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.
<b>Section 10 Stability and Reactivity Data</b>			
<b>Instability</b>	The product is stable.	<b>Will material polymerize?</b>	Will not occur.
<b>Incompatibles</b>	Reactive with oxidizing agents. Avoid getting product wet. Product can be hydrolyzed by moisture with the production of aliphatic alcohol, phenol, and phosphorous acid.		
<b>Corrosivity</b>	Not considered to be corrosive for metals and glass according to our data base.		

<b>Section 11 Toxicological Information</b>									
<b>Routes of Entry</b>	Skin contact. Eye contact. Inhalation.								
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): >2000 mg/kg [Rat]. (Barium compound). Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. (Barium compound).								
<b>Acute Effects</b>	This product may irritate eyes and skin upon contact. Avoid breathing vapor or mist.								
<b>Chronic Effects</b>	There is no known effect from chronic exposure to this product. Repeated skin exposure can produce dermatitis.								
<b>Section 12 Ecological Information</b>									
<b>Ecotoxicity</b>	Not available.								
<b>Biodegradation</b>	Not available.								
<b>Section 13 Disposal Considerations</b>									
<b>Waste Disposal</b>	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 recieved. Barium - D005.								
<b>Section 14 Transport Information</b>									
<b>DOT Description - Bulk</b>	Combustible liquid, n.o.s. (naphtha), NA1993, III.								
<b>DOT Description - Non-Bulk</b>	Not regulated by DOT.								
<b>Reportable Quantity</b>	CERCLA: Hazardous substances.: Phenol: 1000 lbs. (453.6 kg);								
<b>WHMIS</b>	CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-2B: Material causing other toxic effects.								
<b>WHMIS(Canada) Pictogram</b>									
<b>TDG(Canada) Pictogram</b>									
<b>Section 15 Other Regulatory Information</b>									
<b>State Regulations</b>	<u>Rhode Island RTK hazardous substances</u> : Phenol <u>Pennsylvania RTK</u> : Phenol <u>Florida</u> : Phenol <u>Minnesota</u> : Phenol <u>Michigan critical material</u> : Phenol <u>Massachusetts RTK</u> : Phenol <u>New Jersey</u> : Phenol <u>California prop. 65</u> : No products were found. New Jersey TSRN Number: Not available.								
<b>Reportable Quantity</b>	CERCLA: Hazardous substances.: Phenol: 1000 lbs. (453.6 kg);								
<b>SARA 313</b>	<u>SARA 313 toxic chemical notification and release reporting</u> : Barium, soluble compounds (as Ba) 7.5%; Phenol 7.5%; Zinc compounds (as Zn) 3% Total Barium compounds: 10 - 20% Total Zinc compounds: 1 - 10%								
<b>HMIS (U.S.A.)</b>	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> <td>Fire Hazard</td> <td>2</td> <td>Reactivity</td> <td>0</td> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health Hazard	1	Fire Hazard	2	Reactivity	0	Personal Protection	B
Health Hazard	1	Fire Hazard	2	Reactivity	0	Personal Protection	B		
<b>TSCA 8(b) inventory</b> <b>CEPA</b> <b>EINECS Status</b>	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.								

**Section 16 Other Information**

References Not available.

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M\_U WH 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.