



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

Common Name/ Trade Name Therm-Chek® 344	
Manufacturer Ferro Corporation, Polymer Additives Division Walton Hills Operation 7050 Krick Road Walton Hills, Ohio 44146-4494 USA	Emergency Phone Numbers CHEMTREC: 1-800-424-9300 24 Hour Information: 1-216-641-5324 Plant-Week Days Only: 1-216-750-6708
Chemical Name Zinc Complex Mixture	
Chemical Family Polymer Additive	
Synonym Not available.	
CAS# Mixture	

Section 2 Composition and Information on Ingredients

INGREDIENTS	CAS #	% Weight	OSHA (PEL) ACGIH (TLV)
1) Mineral Spirits	8052-41-3	15-20	TWA: 100 (ppm) from OSHA (PEL) [United States] TWA: 100 (ppm) from ACGIH (TLV) [United States]
2) 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

Emergency Overview	Amber. Solvent-like. Liquid. (Hazy liquid.)
WARNING!	FLAMMABLE LIQUID AND VAPOR. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
Potential Health Effects	
Acute	This product may irritate eyes and skin upon contact. May cause respiratory tract irritation. Avoid breathing vapor or mist. Can cause CNS depression.
Chronic	Repeated skin exposure can produce dermatitis. Repeated or prolonged exposure to the substance can produce nervous system effects.

Section 4 First Aid Measures

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

Section 5 Fire and Explosion Data

Flammability	Flammable.	Flash Point	CLOSED CUP: 60°C (140°F). (Pensky-Martens.)
Auto-Ignition Temperature	Not available.	Flammable Limits	Not available.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.		
Combustion Products	Some metallic oxides (Zn). carbon oxides (CO, CO2)		

Fire Hazards Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits toxic fumes (zinc oxide).

Section 6 Accidental Release Measures

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

Large Spill Flammable liquid, insoluble in water. Keep away from heat, sparks and flame. Keep unnecessary people away from spill area. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe gas, fumes, vapor or spray. Do not enter storage areas and confined spaces unless adequately ventilated. Recycle to process, if possible. Do not allow product to reach sewage system, surface or ground water, skim or suction up. Wear appropriate respiratory protection. Absorb with DRY earth, sand or other non-combustible material.

Personal Protection

Small Spill Safety glasses. Gloves. Wear appropriate respirator when ventilation is inadequate.

Large Spill Splash goggles. Full suit. Boots. Gloves. Wear appropriate respirator when ventilation is inadequate.

Section 7 Handling and Storage

Precaution 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.

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. Avoid all possible sources of ignition (spark or flame). 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. Wear appropriate respirator when ventilation is inadequate.

Exposure Limits See Section 2

Section 9 Physical and Chemical Properties

Physical state	Liquid. (Hazy liquid.)	Odor	Solvent-like.
pH (1% soln/water)	Not applicable.	Color	Amber.
Boiling Point	The lowest known value is 167.78°C (334°F) (Mineral Spirits).	Specific Gravity	0.9303 (Water = 1)
Vapor Pressure	The highest known value is 0.3 kPa (@ 20°C) (Mineral Spirits).	Vapor Density	The highest known value is 4.9 (Air = 1) (Mineral Spirits).
Volatility	15.5% (w/w).	Viscosity	Not available.
Evaporation rate	<1 compared to Butyl acetate.	Solubility	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. Avoid getting product wet. Product can be hydrolyzed by moisture with the production of aliphatic alcohol, phenol, and phosphorous acid.		
Corrosivity	Not considered to be corrosive for metals and glass according to our data base.		

Section 11 Toxicological Information

Routes of Entry	Skin contact. Eye contact. Inhalation.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects	This product may irritate eyes and skin upon contact. May cause respiratory tract irritation. Avoid breathing vapor or mist. Can cause CNS depression.

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

Section 12 Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Biodegradation Not available.

Section 13 Disposal Considerations

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. Ignitable - D001.

Section 14 Transport Information

DOT Description - Bulk Combustible liquid, n.o.s. (naphtha), NA1993, III.

DOT Description - Non-Bulk Not regulated by DOT.

Reportable Quantity CERCLA: Hazardous substances.: No products were found.

WHMIS 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 (TOXIC).

WHMIS(Canada) Pictogram



TDG(Canada) Pictogram



Section 15 Other Regulatory Information

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: 800940-5081-P

SARA 313 Total Zinc compounds: 1 - 10%

HMIS (U.S.A.)

Health Hazard	1	Fire Hazard	2	Reactivity	0	Personal Protection	C
---------------	---	-------------	---	------------	---	---------------------	---

TSCA 8(b) inventory TSCA (Toxic Substance Control Act): This product or its components are listed on the TSCA Inventory.
CEPA Canadian environmental protection act (CEPA): This product or its components appear on the Domestic Substances List (DSL)
EINECS Status EINECS: This product or its components appear on the European Inventory of Existing Commercial Chemical Substances.

Section 16 Other Information

References Not available.

Issued on 3/1/2001.

Printed 3/1/2001.

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.