



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

Section 1 Chemical Product and Company Identification

Product Name	Therm-Chek®SP 344	
Manufacturer	Ferro Corporation, Polymer Additives Division Cleveland Operations 1636 Wayside Road Cleveland, Ohio 44112 USA	Emergency Telephone Numbers CHEMTREC : 1-800-424-9300 24 Hour Information : (216) 641-5324 Plant-Week Days Only : (216) 750-7020 Issued on 1/30/2001.
Chemical Name	PVC Powder Stabilizer	
Chemical Family	Polymer Additive	
Synonym	Not available.	
CAS#	Mixture	

Section 2 Composition and Information on Ingredients

INGREDIENTS	CAS #	% Weight	OSHA (PEL) ACGIH (TLV)
1) Magnesium Oxide	1309-48-4	15-20	TWA: 15 (mg/m ³) from OSHA (PEL) [fume] TWA: 10 (mg/m ³) from ACGIH (TLV) [fume] TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Inhalation Total.
2) Titanium Dioxide	13463-67-7	15-20	TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Total. TWA: 5 from OSHA (PEL) [United States] Respirable. TWA: 10 (mg/m ³) from ACGIH (TLV) [United States] TWA: 0.5 (mg/m ³) from ACGIH (TLV) [United States]
3) Barium, soluble compounds (as Ba)		10-15	
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

Emergency Overview	Color :	White.
WARNING!	Physical state :	Solid. (Powder.)
	Odor :	Mild fatty odor

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Dust may cause mechanical irritation. May irritate digestive tract. May form explosive mixtures with air. Combustible material.

Potential Health Effects

Acute	May cause skin, eye and respiratory irritation. Dust may cause mechanical irritation. Can cause gastrointestinal irritation.
Chronic	To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Section 4 First Aid Measures

Eye	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin	Wash with soap and water. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Drink two large glasses of water. Get medical attention if symptoms appear.

Section 5 Fire and Explosion Data			
Flash Point	CLOSED CUP: >66°C (150.8°F). (Pensky-Martens.)		
Flammable Limits	Not available.		
Auto-Ignition Temperature	Not available.		
Fire Fighting Media and Instructions	Use DRY chemicals, CO ₂ , water spray or foam. Use extinguishing media suitable for surrounding materials. Fire fighters should wear proper protective equipment. A self contained breathing apparatus should be used to avoid inhalation of the product.		
Combustion Products	Carbon oxides (CO, CO ₂), BaO, MgO and ZnO fumes.		
Fire Hazards	Material in powder form, capable of creating a dust explosion. Avoid raising dust clouds. Dust explosion can occur under conditions of high dust concentrations in the presence of any ignition source.		
Section 6 Accidental Release Measures			
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe dust.		
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Wear appropriate respiratory protection. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe dust. Dust can combine with air to form an explosive mixture. Keep away from heat, sparks and flame.		
Personal Protection			
Small Spill	Safety glasses. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate.		
Large Spill	Splash goggles. Protective clothing. Gloves (impervious). Boots. Wear appropriate respirator when ventilation is inadequate.		
Section 7 Handling and Storage			
Precaution	Wash thoroughly after handling. Use only in well-ventilated areas. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and shoes. Avoid dusting when handling and avoid all possible sources of ignition (spark or flame).		
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Store away from incompatible materials and ignition sources.		
Section 8 Exposure Controls/Personal Protection			
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.		
Personal Protection	Safety glasses. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate.		
Exposure Limits	See Section 2. Composition and Information on Ingredients		
Section 9 Physical and Chemical Properties			
Physical state	Solid. (Powder.)	Odor	Mild fatty odor
pH (1% soln/water)	Not applicable.	Color	White.
Boiling Point	Not available.	Specific Gravity	>1 (Water = 1)
Melting Point	Not available.	Vapor Pressure	Not applicable.
Volatility	0% (w/w).	Solubility	Insoluble in cold water, hot water.

Section 10 Stability and Reactivity Data	
Instability	The product is stable. Hazardous Polymerization Will not occur.
Incompatibles	Reactive with oxidizing agents, metals, acids, halogens..
Corrosivity	Not considered to be corrosive for metals and glass.
Section 11 Toxicological Information	
Routes of Entry	Skin contact. Eye contact. Inhalation.
Toxicity to Animals	Acute oral toxicity (LD50): 1832 mg/kg [Mouse]. (Barium Compound).
Acute Effects	May cause skin, eye and respiratory irritation. Dust may cause mechanical irritation. Can cause gastrointestinal irritation.
Chronic Effects	To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.
Section 12 Ecological Information	
Ecotoxicity	Not available.
Biodegradation	Not available.
Section 13 Disposal Considerations	
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material when discarded is a hazardous waste as defined by RCRA 40 CFR 261.
Waste Classification	Code: D005 Classification: Barium compounds
Section 14 Transport Information	
DOT Classification	Not a DOT controlled material (United States).
Reportable Quantity	<u>CERCLA: Hazardous substances:</u> No products were found.
Marine Pollutant	Not applicable.
Special Provisions for Transport	No additional remark.
Canada TDG Classification	Not controlled under TDG (Canada).
WHMIS	CLASS D-2B: Material causing other toxic effects (TOXIC).
Section 15 Other Regulatory Information	
State Regulations	<u>Rhode Island RTK hazardous substances:</u> Magnesium Oxide; Titanium Dioxide; Zinc Compound <u>Pennsylvania RTK:</u> Magnesium Oxide; Titanium Dioxide; Zinc Compound <u>Florida:</u> Magnesium Oxide <u>Minnesota:</u> Magnesium Oxide; Titanium Dioxide; Zinc Compound <u>Massachusetts RTK:</u> Magnesium Oxide; Titanium Dioxide; Zinc Compound <u>New Jersey:</u> Magnesium Oxide; Titanium Dioxide <u>California prop. 65:</u> No products were found. New Jersey TSRN Number: Not available.
Reportable Quantity	<u>CERCLA: Hazardous substances:</u> No products were found.

SP 344		Ferro Corporation, Polymer Additives Division						
SARA 313		SARA 313 toxic chemical notification and release reporting: Barium Compound 45%; Barium, soluble compounds (as Ba) 12.5%; Zinc Compound 10%; Zinc compounds (as Zn) 3%						
HMIS (U.S.A.)	Health Hazard	2	Fire Hazard	2	Reactivity	0	Personal Protection	B
TSCA, CEPA DSL/ NDSL		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)						
Section 16 Other Information								
References		Not available.						
Issued on 1/30/2001.					Printed 6/12/2001.			
M_U_WS_TcK								

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.