



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

Section 1 - Chemical Product and Company Information

Product Name Zinc Stearate	
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
Chemical Name Zinc Stearate	Issued on 2/1/2002
Chemical Family Polymer Additive	
Synonym Octadecanoic acid, zinc salt	
CAS# 557-05-1	

Section 2 - Composition/Ingredients

INGREDIENTS	CAS #	% Weight	OSHA (PEL) ACGIH (TLV)
1) Zinc Compound		90-100	TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m ³) from OSHA (PEL) [United States] Inhalation Respirable.
2) Zinc compounds (as Zn)	7440-86-6	15-20	Not available
3) Zinc Oxide	1314-13-2	1-5	TWA: 5 (mg/m ³) from OSHA (PEL) [fumes] TWA: 5 (mg/m ³) from ACGIH (TLV) [fumes] TWA: 15 (mg/m ³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m ³) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 10 (mg/m ³) from ACGIH (TLV) [United States] Inhalation Total.
4) Stearate			TWA: 10 (mg/m ³) from ACGIH (TLV) [United States] Total

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

Section 3 - Hazards/Identifications

Emergency Overview	Color : White.
CAUTION!	Physical state : Solid. (Powder)
	Odor : Mild.

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

Potential Health Effects

Acute	May irritate skin and eyes. May irritate nose, throat and upper respiratory tract Can cause gastrointestinal irritation.
Chronic	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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	Over-exposure by inhalation may cause respiratory irritation. Allow the victim to rest in a well ventilated area. Oxygen may be administered if breathing is difficult. Get medical attention if symptoms appear.
Ingestion	Ingestion may cause gastric disturbances. Drink two large glasses of water. Get medical attention if symptoms appear.

Section 5: Fire and Explosion Data

Flash Point	CLOSED CUP, 260°C (500°F). (Pensky-Martens)
Flammable Limits	Not available
Auto-Ignition Temperature	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Fire fighters should wear proper protective equipment. Qualified persons wearing full fire-fighting suits and approved/certified self-contained breathing apparatus.
Combustion Products	Carbon oxides (CO, CO ₂), zinc oxide 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. May form explosive mixtures with air. Keep away from sources of ignition.
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
pH (1% solution)	Not applicable.	Color	White.
Boiling Point	Not available.	Specific Gravity	1.095 (Water = 1)
Melting Point	130°C (266°F)	Vapor Pressure	Not applicable.
Volatility	Not available.	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, acids, alkalis.		
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): 7950 mg/kg [Mouse] (Zinc Oxide).		
Acute Effects	May irritate skin and eyes. May irritate nose, throat and upper respiratory tract. Can cause gastrointestinal irritation.		
Chronic Effects	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.		

Section 12 Ecotoxicological 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.
Waste Classification	Code: RCRA Non-hazardous Classification: Non-hazardous waste

Section 14 Transport Information

DOT Classification	Not a DOT controlled material (United States)
Reportable Quantity	CERCLA, Hazardous substances. No products were found.
Marine Pollutant	Not applicable.
Special Provisions for Transport	No additional remark.
Canada TDG Classification	Not controlled under TDG (Canada)
WHMIS	D-2B

Section 6: Other Regulatory Information						
State Regulations	<p><u>Rhode Island RTK hazardous substances:</u> Zinc Compound; Zinc Oxide <u>Pennsylvania RTK:</u> Zinc Compound; Zinc Oxide <u>Florida:</u> Zinc Oxide <u>Minnesota:</u> Zinc Compound; Zinc Oxide <u>Massachusetts RTK:</u> Zinc Compound; Zinc Oxide <u>California prop. 65:</u> No products were found. New Jersey TSRN Number: Not available.</p>					
Reportable Quantity	<u>CERCLA Hazardous substances.</u> No products were found					
SARA 313	<u>SARA 313 toxic chemical notification and release reporting.</u> Zinc Compound 95%; Zinc compounds (as Zn) 17.5%; Zinc Oxide 3%					
HMIS (U.S.A.)	<table border="1"> <tr> <td></td> <td></td> <td></td> <td>Personal Protection</td> <td>B</td> </tr> </table>				Personal Protection	B
			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) EINECS: This product or its components appear on the European Inventory of Existing Commercial Chemical Substances.					
References	Not available.					
Issued on 2/1/2002.	Printed 2/1/2002.					
	M_U_WS_TCN					

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.