



<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>Product Name</b> Calcium Stearate	
<b>Manufacturer</b> Ferro Corporation, Polymer Additives Division Cleveland Operations 1636 Wayside Road Cleveland, Ohio 44112 USA	<b>Emergency Telephone Numbers</b> CHEMTREC : 1-800-424-9300  24 Hour Information : (216) 641-5324  Plant-Week Days Only : (216) 750-7020
<b>Chemical Name</b> Calcium Stearate	
<b>Chemical Family</b> Not available.	
<b>Synonym</b> Stearic acid, calcium salt	
<b>CAS#</b> 1592-23-0	Issued on 10/4/2001.

**Section 2 Composition and Information on Ingredients**

INGREDIENTS	CAS #	% Weight	OSHA (PEL) ACGIH (TLV)
1) Calcium Hydroxide	1305-62-0	1-10	TWA: 5 (mg/m <sup>3</sup> ) from ACGIH (TLV)-[United States] Inhalation Total. TWA: 5 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 15 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] Inhalation Total.
2) Stearate			TWA: 10 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States] Total.

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

**Section 3 Hazards Identification**

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

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Avoid breathing dust. May irritate digestive tract.

**Potential Health Effects**

<b>Acute</b>	May cause skin, eye and respiratory irritation. Dust may cause mechanical irritation to eye. Can cause gastrointestinal irritation.
<b>Chronic</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. 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 if irritation persists.
<b>Ingestion</b>	Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

**Section 5 Fire and Explosion Data**

<b>Flash Point</b>	CLOSED CUP: >260°C (500°F). (Pensky-Martens.)
<b>Flammable Limits</b>	Not available.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam.
<b>Combustion Products</b>	These products are carbon oxides (CO, CO <sub>2</sub> ). Calcium oxide.
<b>Fire Hazards</b>	May form explosive mixtures with air. 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**

<b>Small Spill</b>	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.
<b>Large Spill</b>	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.
<b>Personal Protection</b>	
<b>Small Spill</b>	Safety glasses. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate.
<b>Large Spill</b>	Splash goggles. Protective clothing. Gloves. Boots. Wear appropriate respirator when ventilation is inadequate.

**Section 7 Handling and Storage**

<b>Precaution</b>	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.
<b>Storage</b>	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**

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	Safety glasses. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate.
<b>Exposure Limits</b>	See Section 2. Composition and Information on Ingredients

**Section 9 Physical and Chemical Properties**

<b>Physical state</b>	Solid. (Powder )	<b>Odor</b>	Mild.
<b>pH (1% soln/water)</b>	Not applicable.	<b>Color</b>	White.
<b>Boiling Point</b>	Not available.	<b>Specific Gravity</b>	>1 (Water = 1)
<b>Melting Point</b>	163°C (325.4°F)	<b>Vapor Pressure</b>	Not applicable.
<b>Volatility</b>	Not available.	<b>Solubility</b>	Insoluble in cold water, hot water.

Calcium Stearate		Ferro Corporation, Polymer Additives Division	
<b>Section 10 Stability and Reactivity Data</b>			
<b>Instability</b>	The product is stable.	<b>Hazardous Polymerization</b>	Will not occur.
<b>Incompatibles</b>	Reactive with oxidizing agents. Avoid all possible sources of ignition (spark or flame).		
<b>Corrosivity</b>	Non-corrosive in presence of glass, of steel.		
<b>Section 11 Toxicological Information</b>			
<b>Routes of Entry</b>	Skin and eye contact. Inhalation. Ingestion.		
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): >10000 mg/kg [Mouse].		
<b>Acute Effects</b>	May cause skin, eye and respiratory irritation. Dust may cause mechanical irritation to eye. Can cause gastrointestinal irritation.		
<b>Chronic Effects</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.		
<b>Waste Classification</b>	Code: RCRA Non-hazardous Classification: Non-hazardous		
<b>Section 14 Transport Information</b>			
<b>DOT Classification</b>	Not a DOT controlled material (United States).		
<b>Reportable Quantity</b>	<u>CERCLA: Hazardous substances</u> : No products were found.		
<b>Marine Pollutant</b>	Not applicable.		
<b>Special Provisions for Transport</b>	No additional remark.		
<b>Canada TDG Classification</b>	Not controlled under TDG (Canada).		
<b>WHMIS</b>	CLASS D-2B: Material causing other toxic effects.		
<b>Section 15 Other Regulatory Information</b>			
<b>State Regulations</b>	<u>Rhode Island RTK hazardous substances</u> : Calcium Hydroxide <u>Pennsylvania RTK</u> : Calcium Hydroxide <u>Florida</u> : Calcium Hydroxide <u>Minnesota</u> : Calcium Hydroxide <u>Massachusetts RTK</u> : Calcium Hydroxide <u>New Jersey</u> : Calcium Hydroxide <u>California prop. 65</u> : No products were found. New Jersey TSRN Number: Not available.		
<b>Reportable Quantity</b>	<u>CERCLA: Hazardous substances</u> : No products were found.		
<b>SARA 313</b>	<u>SARA 313 toxic chemical notification and release reporting</u> : No products were found.		
<b>HMIS (U.S.A.)</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Calcium Stearate		Ferro Corporation, Polymer Additives Division			
Health Hazard	1	Fire Hazard	1	Reactivity	0
				Personal Protection	B
<b>TSCA, CEPA DSL/ NDSL, EINECS Status</b>	TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory. Canadian environmental protection act (CEPA): This product is on the Domestic Substances List (DSL), and is acceptable for use under the provisions of CEPA. EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.				
<b>Section 16 Other Information</b>					
References	Not available.				
Issued on 10/4/2001.	M_U_WS_AIS				

**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.