



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. FF 150  
Effective Date February 25, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	FERRIC SULFATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	0	Reactivity	0
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<b>Chemical Synonyms</b>	Ferric Persulfate, Iron (III) Sulfate																	
<b>Formula</b>	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·XH <sub>2</sub> O (X = approx. 7)																	
<b>Unit Size</b>	up to 2.5 Kg.																	
<b>C.A.S. No.</b>	10028-22-5																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ferric Sulfate	89.0%	See Section V.
Free Sulfuric Acid: (CAS No. 7664-93-9)	2.7%	See Section V.
<b>CAUTION! MAY BE HARMFUL IF SWALLOWED. DUST MAY CAUSE IRRITATION TO EYES AND MUCOUS MEMBRANES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 480°C (896°F)	Specific Gravity (H <sub>2</sub> O = 1)	3.097 @ 18°C.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	55 grams per 100 mL. water at 20°C.		
Appearance & Odor	Gray yellow, grayish-white, grey to brown powder or granules; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
<b>Extinguisher Media</b>	Use any media suitable for extinguishing other combustible materials in the area.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

If water is used, the product is water soluble and water may be acid, and water should not be allowed to enter natural waterways. At temperatures above 600°C, product decomposes to iron oxide and sulfur trioxide.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA

FF 150

**Threshold Limited Value** TLV-TWA 1 mg/m<sup>3</sup>, STEL 2 mg/m<sup>3</sup> as (Fe). Toxicity data: Orl-rat: LD50 1-2.5 g/kg. body weight. Inh-rat: LC50 147.9 mg/Lt.

**Effects of Overexposure** May cause skin irritation. May cause coughing, irritate lungs and mucous membranes. May be corrosive to the eye if not removed by washing. Prolonged dust inhalation may cause lung mottling and irritation of mucous membranes.

**Emergency and First Aid Procedures**  
**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give large amounts of water or milk to drink. Call a physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Moisture. Very hygroscopic, light sensitive.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Solution is highly corrosive to mild steel, copper, copper alloys and galvanized steel.

**Hazardous Decomposition Products** At temperatures above 600°C, product decomposes to iron oxide and sulfur trioxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>	
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Sweep up and place in a suitable container for disposal in an approved landfill. Wash spill area with water. If solution, neutralize with lime, soda ash or bicarbonate and remove to approved landfill.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Remove dry product to approved landfill. If solution, neutralize with lime, soda ash or bicarbonate and remove to approved landfill.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If dusty conditions prevail, wear NIOSH/MSHA-approved dust respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber may be worn.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Smock, apron, eye wash station, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place. Protect from light. Wash thoroughly after handling. Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. If in water solution, product is corrosive. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 6	<b>Date</b> 2/25/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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