



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. FF 161  
Effective Date April 18, 1998

## SECTION V HEALTH HAZARD DATA

FF 161

### Threshold Limited Value

None established. (ACGIH 1992-93). Toxicity Data: Oral LD<sub>50</sub> (Rat) 3250 mg/Kg. Classification: Slightly toxic. TWA: 1 mg (as iron) per meter<sup>3</sup>.

### Effects of Overexposure

**INHALATION:** May cause irritation of nose, throat and cause dyspnea. **EYES:** Irritated by dust or mist. **SKIN:** Probably mildly irritated by prolonged exposure. **INGESTION:** Excessive ingestion may cause abdominal pain, vomiting, diarrhea, dehydration, shock, pallor and hypothermia. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Protect from light. Slowly oxidizes and effloresces in air. Excessive heat, sparks or flame.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	Oxides of nitrogen, ammonia, sulfur and iron may be present.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Sweep up and place in a suitable container. Wash spill area with soap and water.
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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.
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Dissolve in water and flush to sewer with copious amounts of water or if uncontaminated material may be disposed of in a sanitary landfill. Check local codes.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.		
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Not needed.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizers. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with eyes.  
Remove and wash contaminated clothing.

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

Revision	No. 5	Date	4/18/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employees should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FERROUS AMMONIUM SULFATE	 CHEMTREC 800-424-9300 Day 716-226-6177  NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  HMIS * 0 1 2 3 4
Chemical Synonyms	Ammonium Ferrous Sulfate	
Formula	Fe(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> •6H <sub>2</sub> O	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7783-85-9	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ferrous Ammonium Sulfate	100%	None established.
WARNING! HARMFUL IF SWALLOWED.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 100°C (212°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.865 (20°/4°)
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Alc. =1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	26.9%		
Appearance & Odor	Pale blue green crystalline solid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Ammonia on heating 100°-110°C (212°-230°F); higher temperatures, nitrogen oxides and possibly sulfur trioxide (SO<sub>3</sub>).

D.O.T. NON-REGULATED.

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