



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 70
Effective Date February 25, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FERRIC AMMONIUM SULFATE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 4	Health	1
Chemical Synonyms	Ammonium Ferric Sulfate		Fire	0
Formula	$\text{FeNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$		Reactivity	0
Unit Size	up to 2.5 Kg.			
C.A.S. No.	7783-83-7			

SECTION II INGREDIENTS OF MIXTURES

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

SECTION III PHYSICAL DATA

Melting Point (°F)	40°C (104°F)	Specific Gravity ($\text{H}_2\text{O} = 1$)	1.71
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	0
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Alc = 1)	Non-volatile (NA).
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Very soluble in water.		
Appearance & Odor	Pale violet crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not combustible.	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. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may cause production of hazardous decomposition products of ammonia, sulfur dioxide.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value	None established (ACGIH 1992-93). TWA (Fe): 1 mg/m ³ .
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Effects of Overexposure	TARGET ORGANS AFFECTED: Liver, kidneys. Inhalation of dusts may cause irritation to nose, throat. Causes irritation to eyes and skin. Ingestion may cause stomach pain, vomiting, diarrhea, low blood pressure, drowsiness. Exercise appropriate procedures to minimize potential hazards.
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Emergency and First Aid Procedures	EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper 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 a physician. Never give anything by mouth to an unconscious person. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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SECTION VI REACTIVITY DATA

Stability	Unstable Stable	Conditions to Avoid	Excessive temperature and heat.
Incompatibility (Materials to Avoid)	Strong oxidizers.		
Hazardous Decomposition Products	Oxides of nitrogen and sulfur may be present. Ammonia.		
Hazardous Polymerization	May Occur Will Not Occur	Conditions to Avoid	Not applicable.
	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 for proper disposal. 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. Dissolve in water and flush to sewer with copious amounts of water or uncontaminated material may be disposed of in a sanitary landfill. Check local code.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Eye wash station, proper gloves if needed, lab coat, ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin and eyes. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 2/25/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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