



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. FF 110
Effective Date February 9, 1999

SECTION V HEALTH HAZARD DATA

FF 110

Threshold Limited Value None established. Toxicity: orl-rat LD50: 3250 mg/kg.
TLV: 1 mg/m³ (as iron) (ACGIH 1992-93).

Effects of Overexposure **INGESTION:** May cause burns of the mouth, throat and stomach. Acid nature of this salt may cause corrosive damage to the gastrointestinal tract. **SKIN:** Concentrated aqueous solutions or dust may cause severe local irritation or corrosion. **EYES:** Can cause severe irritation or corrosion. **INHALATION:** May cause upper respiratory tract irritation. **TARGET ORGANS AFFECTED:** Eyes, skin, respiratory tract.

Emergency and First Aid Procedures **EYES:** Immediately flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Immediately flush with water, then wash with soap and water. **INGESTION:** If swallowed, if conscious, give two to four glasses of water to drink and induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If ill effects develop, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Aluminum, cyanides, phosphorous, stannous chloride, thiocyanates. Oxidizable materials including sulfur, organic materials and sodium hypophosphite.

Hazardous Decomposition Products Thermal decomposition may produce toxic oxides of nitrogen.

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 Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a fume 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.
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Other Protective Equipment Smock, apron, eye wash station, safety goggles, proper gloves, fire extinguisher.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from combustible materials. 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.

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use with adequate ventilation. 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 2/9/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers 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	FERRIC NITRATE	 CHEMTREC 800-424-9300 Day 716-226-6177	Health	1
Chemical Synonyms	Iron (III) Nitrate, Nonahydrate		Fire	0
Formula	Fe(NO ₃) ₃ •9H ₂ O		Reactivity	3
Unit Size	up to 2.5 Kg.		HMIS *	
C.A.S. No.	7782-61-8	NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Iron (III) Nitrate, Nonahydrate	100%	See Section V.
DANGER! STRONG OXIDIZER! MAY CAUSE IRRITATION		
OR BURNS TO SKIN AND EYES. HARMFUL IF SWALLOWED.		
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.		

SECTION III PHYSICAL DATA

Melting Point (°F)	47.2°C (116°F)	Specific Gravity (H ₂ O = 1)	1.68 @ 21°C.
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Data not listed.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (Butyl Acetate=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Very soluble.		
Appearance & Odor	Pale violet, somewhat deliquescent crystals; slight nitric acid odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Flooding amounts of water in early stages. Heavy water jet advantageous.				

SPECIAL FIREFIGHTING PROCEDURES

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

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

See Hazardous Decomposition Products. Section VI. Oxidizing material. In contact with easily oxidizable substances, it may react rapidly enough to cause ignition, violent combustion, or explosion. Increases the flammability of any combustible substance. Fire or excessive heat may produce hazardous decomposition products.

D.O.T. FERRIC NITRATE, 5.1, UN 1466, PG III

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