



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 114
Effective Date January 22, 1999

SECTION V HEALTH HAZARD DATA

FF 114

Threshold Limited Value

TLV: 1 mg/m3 (as Iron). Toxicity data: Ferric Nitrate: orl-rat LD50: 3250 mg/kg.

Effects of Overexposure

Inhalation of dust or mists may be irritating to the respiratory tract. **SKIN:** May cause irritation. **EYES:** May cause irritation, burns, conjunctivitis. **INGESTION:** May cause excessive urination or bowel movement. Acid nature of this salt may cause corrosive damage to gastrointestinal tract.

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. **INGESTION:** If swallowed, if conscious, give two to four glasses of water or milk to drink. Induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** Remove to fresh air.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Excessive temperature to cause evaporation.

Incompatibility (Materials to Avoid)	Oxidizable materials including sulfur, organic materials and Sodium hypophosphite.
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Hazardous Decomposition Products	Thermal decomposition may produce oxides of Nitrogen.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for proper disposal. Flush 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. Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. 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 skin, eyes and clothing. Avoid breathing mist. Remove and wash contaminated clothing.

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

Revision	No. 1	Date	1/22/99	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 0.20M AQ. SOL'N
Chemical Synonyms	Iron (III) Nitrate, Water Solution
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HEALTH 1
FIRE 0
REACTIVITY 0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Iron (III) Nitrate: (CAS No. 10421-48-4)	8.1%	None established.
Water: (CAS No. 7732-18-5)	91.9%	None established.
WARNING! MAY CAUSE IRRITATION TO SKIN		

AND EYES. HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	91.9%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	Slightly <1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear to slightly yellow liquid.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

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