



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 | Excessive temperature to cause evaporation. |
| | Stable | X | | |

Incompatibility (Materials to Avoid) Oxidizable materials including sulfur, organic materials and Sodium hypophosphite.

Hazardous Decomposition Products Thermal decomposition may produce 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
Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for proper disposal. Flush 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 agency.

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.

| | | | | |
|--------------------|-----------------------------|---------------|----------------|-----|
| Ventilation | Local Exhaust | Not required. | Special | No. |
| | Mechanical (General) | Not required. | Other | No. |

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, apron, eye wash station, proper gloves.

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.

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 mist. Remove and wash contaminated clothing.

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

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| Revision No. 1 | Date 1/22/99 | Approved Michael Raszeja | Chemical Safety Coordinator MR |
|-----------------------|---------------------|---------------------------------|---------------------------------------|

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 | FERRIC NITRATE 0.20M AQ. SOL'N | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * | Health | 1 |
| Chemical Synonyms | Iron (III) Nitrate, Water Solution | | Fire | 0 |
| Formula | Mixture. | | Reactivity | 0 |
| Unit Size | up to 4 Lt. | | | |
| C.A.S. No. | Mixture. | | | |

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 (H₂O = 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