



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 140
Effective Date February 25, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| | | | | | | | | | | | | | | | | | | |
|--------------------------|----------------------|--|----------|--------|----------|------|---------|---|---|---|---|---|--------|---|------|---|------------|---|
| Product | FERRIC PHOSPHATE |  <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>0</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table> | LEAST | SLIGHT | MODERATE | HIGH | EXTREME | 0 | 1 | 2 | 3 | 4 | Health | 0 | Fire | 0 | Reactivity | 0 |
| LEAST | SLIGHT | | MODERATE | HIGH | EXTREME | | | | | | | | | | | | | |
| 0 | 1 | | 2 | 3 | 4 | | | | | | | | | | | | | |
| Health | 0 | | | | | | | | | | | | | | | | | |
| Fire | 0 | | | | | | | | | | | | | | | | | |
| Reactivity | 0 | | | | | | | | | | | | | | | | | |
| Chemical Synonyms | Iron (III) Phosphate | | | | | | | | | | | | | | | | | |
| Formula | FePO ₄ | | | | | | | | | | | | | | | | | |
| Unit Size | up to 2.5 Kg. | | | | | | | | | | | | | | | | | |
| C.A.S. No. | 10045-86-0 | | | | | | | | | | | | | | | | | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|------------------------|------|-------------------|
| Ferric Phosphate | 100% | None established. |

NON-HAZARDOUS MATERIAL IN

NORMAL LABORATORY HANDLING.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---|------|
| Melting Point (°F) | 140°C (284°F) | Specific Gravity (H ₂ O = 1) | 2.87 |
| Boiling Point (°F) | N/A | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (=1) | N/A |
| Vapor Density (Air=1) | N/A | | |
| Solubility in Water | Insoluble. | | |
| Appearance & Odor | Yellowish to white, white, grayish-white, or light pink crystals or powder; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|----------------------------------|---|-------------------------------------|-----|-------|-------|
| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | N/A | 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 and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of phosphorus.

SECTION V HEALTH HAZARD DATA

FF 140

Threshold Limited Value None established (ACGIH 1992-93).

Effects of Overexposure Ferric Phosphate is used as a nutrient and/or dietary supplement food additive. Also used as a trace mineral added to animal feeds. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize opportunities for direct contact with skin or eyes and to prevent inhalation of dust.

Emergency and First Aid Procedures

SKIN: Flush thoroughly with water. **EYES:** Flush thoroughly with water for 15 minutes. If irritation develops or persists, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink 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. Call physician.

SECTION VI REACTIVITY DATA

Stability

| | | |
|----------|---|--|
| Unstable | | Conditions to Avoid Moisture, excessive heat, and/or temperature. |
| Stable | X | |

Incompatibility (Materials to Avoid) None known.

Hazardous Decomposition Products When heated to decomposition emits oxides of Phosphorus.

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 Avoid making dust. Sweep up and place in a suitable container for 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. Uncontaminated material may be disposed of in a sanitary 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 with a ventilation hood, or wear a NIOSH/MSHA-approved dust mask.

Ventilation

| | | | |
|----------------------|-----------------------------|----------------|--------------|
| Local Exhaust | If dusty. | Special | No. |
| | Mechanical (General) | If dusty. | Other |

Protective Gloves Rubber, for prolonged handling. **Eye Protection** Chemical safety glasses.

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a dry area. 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. Remove and wash contaminated clothing.

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

| | | | |
|-----------------------|---------------------|---------------------------------|---------------------------------------|
| Revision No. 4 | Date 2/25/99 | 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.

D.O.T. NON-REGULATED.

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