



**PERFORMANCE MINERALS™
MATERIAL SAFETY DATA SHEET**

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|--|---|
| IDENTITY (as Used on Label and List) Availa-Fe 100 | CHEMICAL NAME Iron amino acid complex |
|--|---|

Section I

| | |
|--|--|
| Manufacturer's name Zinpro Corporation | Emergency Telephone Number CHEMTREC 800-424-9300 |
| Address (Number, Street, City, State and ZIP Code) 10400 Viking Drive, Suite 240 Eden Prairie, MN 55344-7265 | Telephone Number for Information 952-944-2736 |
| | Date Prepared January 2007 |
| | Signature of Preparer (optional) |

Section II—Hazardous Ingredients/Identity Information

| Hazardous Components (Specific chemical identity, common names, CAS #) | OSHA PEL | ACGIH TLV | wght % | HAP (Y/N) | SARA313 (Y/N) |
|---|-----------------------------------|-----------------------------------|---------|-----------|---------------|
| iron 7439-89-6 | ^a 15 mg/m ³ | ^a 10 mg/m ³ | 10%(Fe) | N | N |

^aPermissible exposure level (PEL) and threshold limit value (TLV) are set for "particulates not otherwise classified" and are not specific for this compound. No specific values are published.

Section III—Physical/Chemical Characteristics

| | | | |
|-------------------------|------------------------------------|---|----------------------|
| Boiling Point | NA | Specific Gravity (H ₂ O = 1) | 1.9 |
| Vapor Pressure (mm Hg) | NA | Melting Point | decomposition >500°F |
| Vapor Density (AIR = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | soluble (carrier is insoluble) | | |
| Appearance and Odor | brown granular, sweet organic odor | | |

Section IV—Fire and Explosion Hazard Data

| | | | | | | | |
|------------------------------------|--|------------------|----|-----|----|-----|----|
| Flash Point (Method Used) | non-flammable | Flammable Limits | NA | LEL | NA | UEL | NA |
| Extinguishing Media | as appropriate for surrounding materials | | | | | | |
| Special Fire Fighting Procedures | respiratory protection against potential for metal fumes | | | | | | |
| Unusual Fire and Explosion Hazards | none | | | | | | |

Section V—Reactivity Data

| | | | |
|---------------------------------------|---|---|---------------------|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | X | acids or caustics |
| Incompatibility (Materials to Avoid) | Metal compounds: do not mix with acids or caustics unless under controlled conditions | | |
| Hazardous Decomposition or Byproducts | None | | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid |

Will Not Occur

X

Section VI—Health Hazard Data

Route(s) of Entry Inhalation? **Yes** Skin? **Yes** Ingestion? **Yes**

Health Hazards (Acute and Chronic)

May irritate skin, eyes, and mucous membranes.

Carcinogenicity NTP? **No** IARC Monographs? **No** OSHA Regulated? **No**

Signs and Symptoms of Exposure

Prolonged contact may irritate (mild pain and redness) skin, eyes, and mucous membranes.
Prolonged inhalation may cause irritation of nose, mouth, & throat.

Medical Conditions Generally Aggravated by Exposure

Respiratory problems, existing dermatitis

Emergency and First Aid Procedures

Wash skin and eyes with copious amounts of water. Rinse mouth and throat with water repeatedly without swallowing. Seek medical attention if necessary.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Recover uncontaminated material for reuse. Vacuum or sweep remaining waste, keeping dust to a minimum. Place in covered container for transport.

Waste Disposal Method

Dispose as nonhazardous solid waste at a facility licensed to receive municipal/industrial waste. Cover or contain material during transport.

Precautions to Be Taken in Handling and Storing

Store in dry location. Wear dust mask, goggles and chemical resistant gloves to avoid inhalation or contact.

Other Precautions

None

Section VIII—Control Measures

Respiratory Protection (Specify Type)

| | | | | |
|--------------|----------------------|---|---------|--------------------------------|
| Ventilation: | Local Exhaust | X | Special | dust mask if prolonged contact |
| | Mechanical (General) | | Other | |

| | | | |
|-------------------|---------------------------|----------------|---------|
| Protective Gloves | chemical-resistant gloves | Eye Protection | goggles |
|-------------------|---------------------------|----------------|---------|

Other Protective Clothing or Equipment none

Work/Hygiene Practices

Use of protective gear and good personal hygiene will reduce the possibility of contact irritation. Wash with soap and water after handling.