



## HYDRO-ZONE, INC.

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### MATERIAL SAFETY DATA SHEET

#### I. GENERAL INFORMATION -----

Code, Trade Name: HZ060210, Ferrioin Indicator  
Chemical Name: Iron-Phenanthroline Complex in Water  
Chemical Family: Metal Salt/ Cyclic Amine in Water

#### II. HAZARDOUS INGREDIENTS -----

Ferrous Sulfate, Heptahydrate CAS #7782-63-0 0.2% W/V  
TLV/PEL: 1 mg/m3 (as Fe) TXDS:ori-mus LD50: 1520 mg/kg  
o-Phenanthroline CAS #66-71-7 0.7% W/V  
TLV/PEL: None established TXDS:ori-rat LD50: 132 mg/kg  
Water, CAS # 7732-18-5 > 99% W/V

Carcinogenicity: None listed (IARC).

#### III. HEALTH HAZARD DATA -----

The toxicity of this material has not been thoroughly investigated. Ingestion and skin absorption may be harmful. Contact may cause irritation.  
Routes of Entry: Ingestion, Inhalation, Skin Contact.

##### First Aid:

Eyes: Flush with water for at least 15 min; get immediate medical assistance.

Skin: Remove contaminated clothing and wash with soap and water.

Inhalation: Remove to fresh air & give artificial respiration if breathing has stopped.

Ingestion: Induce vomiting if conscious.

**GET MEDICAL ASSISTANCE FOR ALL CASES OF OVER EXPOSURE!**

#### IV. PHYSICAL DATA -----

Boiling Point: N/A Specific Gravity: 1.01  
Vapor Density: N/A  
Water Solubility: Miscible  
Appearance & Odor: Red aqueous solution.

#### V. FIRE & EXPLOSION HAZARD DATA -----

Flash Point: N/A  
Extinguishing Media: Any applicable for other materials involved.  
Special Procedures: Wear self contained breathing apparatus and protective clothing if necessary.  
Unusual Fire & Explosion Hazards: None indicated.

#### VI. REACTIVITY DATA -----

Conditions To Avoid: None indicated.  
Hazardous Combustion & Decomposition Products:  
Small amounts of nitrogen compounds SO<sub>x</sub> & CO<sub>x</sub>

#### VII. SPECIAL PROTECTION -----

Provide adequate general and local exhaust ventilation.  
Protect eyes and skin with safety goggles and gloves.  
Do not get in eyes, on skin or clothing.  
Wear self contained breathing apparatus in high vapor areas.  
Do not breathe vapors.

#### VIII. HANDLING AND STORAGE PRECAUTIONS -----

Keep container tightly closed.  
Store in cool, dry, well ventilated area.  
Keep away from ignition source.  
Wash thoroughly after handling.

#### NFPA Hazard Rating:

Health - 1, Flammability - 0, Reactivity - 0

DOT - Not Regulated

#### IX. ENVIRONMENTAL PROTECTION -----

Spill Response: Absorb with sand or vermiculite and scoop up and containerize for proper disposal.

Waste Disposal: Comply with all local, state and federal regulations.

The above information is to be used only as a guide, and does not profess to be all inclusive. Hydro-Zone, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.

N/A = Not Available

Issue Date: 7/02

Revised: 02/03