

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291 Emergency Telephone No.: 800-535-5053

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: FE3144-A, FE3144-B, FE3144-C, FE3144-D, FE3144-P, FE3144-Q, FE3144-G,

FE3144-T

Product Identity: Ferroin Indicator

Chemical Family: No information available

Synonyms: None

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291

Emergency Contact Number (24hr): InfoTrac (800) 535-5053

Issue Date: 12/28/06

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Section 2 - Hazard Identification

Emergency Overview

Warning. May be harmful if swallowed. Handle with care. If ingested, dilute with water and induce

vomiting. Wash areas of contact with water. Get medical attention. Odor: Odorless

Appearance: Clear, dark red liquid

Target Organs: Eyes, skin, liver.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause slight irritation. Skin: May cause slight irritation.

Ingestion: Large doses may cause upset stomach Inhalation: Not likely to be a hazard by inhalation.

Chronic Effect / Carcinogenicity: None(IARC, NTP, OSHA) Aggravated Medical Conditions No information available These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 - Composition, Information on Ingredients

1.10-Phenanthroline Monohydrate, CAS# 5144-89-8, 0.7% w/v Ferrous Sulfate Heptahydrate, CAS# 7782-63-0, <0.4% w/v Water, purified, CAS# 7732-18-5, >98% w/v

Section 4 - First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops. Ingestion: Induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Flash Point: Not Applicable Autoignition Temperature No information available. Lower No data available Explosion Limits Upper No data available

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Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Toxic gas may be produced in fire.

Use protective clothing. Use NIOSH-approved breathing equipment. Hazardous Combustion Products: No information Available Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No information available.

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 - Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid contact with skin, eyes and clothing. Environmental Precautions No information Available. Methods for Containment and Clean Up Soak up with inert absorbent material

Section 7 - Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Keep Protect from freezing and physical damage.

Section 8 - Exposure Controls, Personal Protection

1,10-Phenanthroline Monohydrate, CAS# 5144-89-8, ACGIH TLV: NA, OSHA PEL: NA Ferrous Sulfate Heptahydrate, CAS# 7782-63-0, ACGIH TLV 1 mg/m3, OSHA PEL: NA

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is

adequate

Section 9 - Physical and Chemical Properties

Appearance/Physical State: Clear, dark red liquid

Odor: Odorless

Boiling Point: Approx 100C Melting Point: Approx 0C

Vapor Density: No Information Available

Evaporation Rate: No information Available

pH: No information Available

Flammability: No Information Available

Solubility: Infinite

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: Approx 1

Vapor Pressure: No information Available

Flash Point: Not Applicable

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: No Information Available

Partition Coefficient n-octanol/water: No data

Molecular Weight: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Alkalis, oxidizing agent. Conditions to Avoid: No information Available

Hazardous Decomposition Products: Oxides of sulfur, carbon, and nitrogen.

Hazardous Polymerization: Does not occur

Hazardous Reactions: Not available.

Section 11 - Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness - See Section 2

LD50 orl-rat: 319 mg/kg (Ferrous Sulfate)

LC50 inhalation-rat: Not available

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

Endocrine Disruptor Information No information available

Section 12 - Ecological Information

Ecotoxicity: No information available

Persistence and Degradability: No Information Available

Bioaccumulation/ Accumulation: No Information Available

Mobility: No Information Available

Section 13 - Disposal Considerations

Dilute with water.

Waste Disposal/Waste Disposal of Packaging: All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 - Transport Information

DOT - Not Regulated

Section 15 - Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.

Canada DSL: These chemicals are listed on Canada's DSL list.

TSCA: The components of this solution are listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Ferrous Sulfate Heptahydrate - 1000 lbs.

WHMIS: -2B: Poisonous and infectious Material: Materials causing other toxic effects — Toxic material This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 - Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained form the products use.