

I Identification

Product Name: **Ferrous Sulfate, Heptahydrate**

Catalog Number: **F006**

Synonyms: **Iron (II) Sulfate Heptahydrate**

Company: **Caisson Laboratories**

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Emergency Contact: **CHEMTREC 800.424.9300 (703.527.3887)**

Recommended Use: **For research and laboratory use only.**

Restrictions On Use: **This product is intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.**

II Hazard(s) Identification

Overview:

Flammability:

Reactivity: **No data available.**

Toxicity:

NFPA Rating

Health: **1**

Flammability: **0**

Reactivity: **0**

Special:

Pictograms:



III Composition / Information on Ingredients

General Information:

Component:

CAS#: **7782-63-0**

% by Weight:

IV First-Aid Measures

General Information: **Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

Route of Exposure

Oral: **Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.**

Inhalation: **If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.**

Dermal: **Wash off with soap and plenty of water. Consult a physician.**

Eye: **Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point: **No data available.**

Ignition Temperature: **No data available.**

Suitable Extinguishing Media: **Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

Special Protective Equipment for fire fighters: **Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.**

Additional Information: **No data available.**

VI Accidental Release Measures

General Information:

VII Handling and Storage

Handling: **Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.**

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Storage: **Keep in a tightly closed container, stored in a dry, ventilated area.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**

Personal Protective Equipment

General:

Eye Protection: **Wear chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.**

Hand Protection: **Wear protective gloves.**

Respiratory Protection: **For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Skin and Body Protection: **Wear lab coat, gown, or coveralls to protect from exposure.**

Hygiene Measures:

IX Physical and Chemical Properties

General Information:

Appearance: **Blue green crystalline powder**

pH: **3.0 - 4.0 at 50 g/l at 25 °C (77 °F)**

Specific Gravity: **No data available.**

Melting Point: **64 °C**

Boiling Point: **No data available.**

Flash Point: **No data available.**

Flammability Range: **No data available.**

Vapor Pressure: **No data available.**

X Stability and Reactivity

General Information:

Storage Stability

Temperature: **Room Temperature**

Light Sensitive: **False**

Incompatibles: **Strong oxidizing agents.**

Hazardous Decomposition Products: **Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Iron oxides**

XI Toxicological Information

General Information:

Acute Toxicity: **LD50 Oral - Mouse - 1,520 mg/kg**

LD50 Intraperitoneal - Mouse - 245 mg/kg

LD50 Intravenous - Mouse - 51 mg/kg

Chronic Toxicity:

Local Effects:

Target Organs: **Liver, blood, respiratory system**

Carcinogenicity: **No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

OSHA Permissible Exposure Limits: **No data available.**

XII Ecological Information

General Information:

XIII Disposal Considerations

General Information:

Disposal of Product: **Dispose in accordance with all applicable federal, state, and local environmental regulations.**

Disposal of Packaging: **Dispose of as unused product.**

XIV Transport Information

Proper Shipping Name: **Environmentally hazardous substances, solid, n.o.s. (Ferrous sulfate heptahydrate)**

UN#: **UN3077**

Class: **9**

Packaging Group: **III**

Hazard Label: **Environmental Hazard**

XV Regulatory Information

General Information:

TSCA:

SARA 313:

XVI Other Information

General Information: **All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.**