

<b>Material Safety Data Sheet</b>	<b>USBio MSDS 1.0</b>
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**1a. Identification of the  
substance/preparation**

*Cat #: F4021*

*Product Name: Ferrous Sulfate Heptahydrate*

*Alt. Name: Iron II Sulfate Heptahydrate*

*CAS #: 7782-63-0*

*Molecular Weight: 278.0*

*Molecular Formula: FeSO<sub>4</sub>•7H<sub>2</sub>O*

**1b. Supplier**

United States Biological

P.O. Box 261

Swampscott Ma, 01907

800-520-3011 Fax: 781-639-1768

chemicals@usbio.net

www.usbio.net

## **2. Hazards identification**

Label precautionary statements

Harmful, harmful if swallowed. Irritating to eyes, respiratory system and skin.

Target organ(s):

G.i. System

Liver

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

## **3. Composition/ Information on ingredients**

Cas #: 7782-63-0

Mf: feo4s

Synonyms

Ferrous sulfate heptahydrate \* fesofor \* fesotyme \* green vitrol \* haemofort \* ironate \* iron  
protosulfate \* iron sulfate heptahydrate \* irosul \* mol-iron \* presfersul \*

#### **4. First-aid measures**

If swallowed, wash out mouth with water provided person is conscious. Call a physician. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### **5. Fire fighting measures**

Extinguishing media

Water spray. Carbon dioxide, dry chemical powder or appropriate foam. Special firefighting procedures wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Unusual fire and explosions hazards emits toxic fumes under fire conditions.

#### **6. Accidental release measures**

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Evacuate area.

#### **7. Handling and storage**

Refer to section 8.

## **8. Exposure controls/personal protection**

Safety shower and eye bath. Mechanical exhaust required. Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Niosh/msha-approved respirator. Compatible chemical-resistant gloves. Chemical safety goggles. Store in a cool dry place. Keep tightly closed. Wash contaminated clothing before reuse. Wash thoroughly after handling.

## **9. Physical and chemical properties**

### *Appearance and odor*

Solid.

### *Physical properties*

Vapor pressure: 14.6 mmhg

Specific gravity: 1.898

Ph: 3.0 - 4.0

## **10. Stability and reactivity**

### Stability

Stable.

Conditions to avoid

Sensitive to air

Incompatibilities

Sensitive to moisture

Strong oxidizing agents

Hazardous combustion or decomposition products

Sulfur oxides

Hazardous polymerization will not occur.

## **11. Toxicological information**

Acute effects

Causes skin irritation. May be harmful if absorbed through the skin. Causes eye irritation. May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Harmful if swallowed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic effects

Target organ(s):

G.i. System

Liver

Rtecs #: no8510000

Iron(ii) sulfate (1:1), heptahydrate

Toxicity data

Orl-mus ld50:1520 mg/kg ajmsa9 230,491,1955

Ipr-mus ld50:245 mg/kg arznad 17,748,1967

Ivn-mus ld50:51 mg/kg ajmsa9 230,491,1955

Target organ data

Behavioral (somnolence)

Cardiac (other changes) lungs, thorax or respiration (respiratory depression) only selected registry of toxic effects of chemical substances (rtecs) data is presented here. See actual entry in rtecs for complete information.

## **12. Ecological information**

Data not yet available.

## **13. Disposal considerations**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

## **14. Transport information**

Contact United States Biological for transportation information.

## **15. Regulatory information**

European information

Caution: substance not yet fully tested.

Harmful

R 22

Harmful if swallowed.

R 36/37/38

Irritating to eyes, respiratory system and skin.

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36

Wear suitable protective clothing.

Reviews, standards, and regulations

Oel=mak

Epa fifra 1988 pesticide subject to registration or re-registration

Fereac 54,7740,1989

Msha standard-air: twa 1 mg(fe)/m<sup>3</sup>

Dtlvs\* 3,138,1971

Oel-finland: twa 1 mg(fe)/m<sup>3</sup>, jan1999

Oel-switzerland: mak-w 1 mg(fe)/m<sup>3</sup>, jan1999

Oel-united kingdom: ltel 1 mg(fe)/m<sup>3</sup>, stel 2 mg(fe)/m<sup>3</sup>, jan1993

Noes 1983: hzd x3016; nis 6; tnf 352; nos 12; tne 7242; tfe 2396

## **16. Other information**

Disclaimer:

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