

**SAFETY DATA SHEET****FERROUS SULPHATE**

mfsh001

**1. Identification of the substance/preparation and of the company/undertaking**

**Product name** : FERROUS SULPHATE **Supplier** :

**Chemical product name** : IRON (II) SULPHATE  
HEPTAHYDRATE

**Synonyms** : FERROUS SULPHATE  
HEPTAHYDRATE

**EMERGENCY ONLY TELEPHONE NUMBER** : (N.C.E.C. CULHAM) 01865 407333 **Telephone No.** :

**Formula** : FeSO<sub>4</sub>.7H<sub>2</sub>O **Fax No.** :  
**Molecular Mass** : 278

Please note: This is the MSDS provided by the supplier of these goods to FIBRECRAFTS. FIBRECRAFTS does not have the qualifications necessary to gather such specialised data. Tel: 01483 565800

**2. Composition/information on ingredients**

**Substance/Preparation** : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) IRON (II) SULPHATE HEPTAHYDRATE	7782-63-0	100	231-753-5	Xn	R22

\* Occupational Exposure Limit(s), if available, are listed in Section 8

**Composition** : Contains >99% FeSO<sub>4</sub>.7H<sub>2</sub>O

**CAS No.** : 7782-63-0

**EINECS Number** : 231-753-5

**3. Hazards identification**

**Human health hazards** : Harmful if swallowed. Irritating to eyes, respiratory system and skin.

**4. First-aid measures**First-Aid measures

**Inhalation** : Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. Obtain medical attention.

**Ingestion** : If patient is conscious wash out mouth with water and give 5% sodium bicarbonate solution followed by a demulcent such as milk Do not induce vomiting.

**Skin contact** : Wash skin with water. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

**Eye Contact** : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open.

Effects and symptoms

**Inhalation** : Exposure to dust may have the following effects:- irritation of nose, throat and respiratory tract.

**Ingestion** : A large dose may have the following effects:- gastrointestinal irritation.

**Skin contact** : Material will cause irritation.

**Eye Contact** : Liquid will cause conjunctival irritation.

**5. Fire-fighting measures**Extinguishing Media

**Suitable** : Select extinguishing agent appropriate to other materials involved. Use water spray, foam, dry chemical or carbon dioxide. Use water spray, fog or alcohol resistant foam.

**Unusual fire/explosion Hazards** : Hazardous Combustion Products : SULPHUR DIOXIDE

This product may give rise to hazardous fumes in a fire.

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**Hazardous thermal (de)composition products** : Decomposition in heated air and on contact with acids produces highly toxic sulphur dioxide fumes.

**Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.

## 6. Accidental release measures

**Personal Precautions** : Wear appropriate protective clothing. Wear respiratory protection.

**Environmental precautions and cleanup methods** : Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

: Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

## 7. Handling and storage

**Handling** : Avoid inhaling dust. Ensure adequate ventilation

**Storage** : Storage area should be: cool. under cover. well ventilated. Storage area should be: under cover. dry. Store away from sources of heat or ignition. Avoid storing sacks in a large stack to prevent the product from caking. Storage temperature should be kept below 24 °C. Keep containers sealed to prevent air contact - see conditions to avoid.

### Packaging materials

**Recommended use** : Use original container.

## 8. Exposure controls/personal protection

**Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.

**Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Workplace Exposure Limits</u>
1) Iron salts	<b>EH40 (United Kingdom (UK)).</b> STEL: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>

### Personal protective equipment

**Respiratory system** : Dust respirator if conditions are dusty.

**Skin and body** : Overalls or Lab coat.

**Hands** : PVC or rubber gloves.

**Eyes** : Chemical goggles must be worn.

## 9. Physical and chemical properties

**Physical state** : Crystals.

**Colour** : Blue-Green. Turns brown on exposure to light.

**Odour** : Faint.

**Boiling point** : Decomposes

**Melting point** : 300

**Density** : Not available.

**Solubility** : 25.6 g/ml

**pH** : 2.8 (5% solution)

**Flash point** : Not available.

## 10. Stability and reactivity

**Stability** : The product is stable.

**Conditions to Avoid** : Exposure to air or oxygen. (When not in use)

**Materials to avoid** : Alkalis. Oxidising agents.

**Hazardous decomposition products** : Decomposition in heated air and on contact with acids produces highly toxic sulphur dioxide fumes.

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### 11. Toxicological information

#### Local effects

**Acute toxicity** : Harmful by ingestion. Oral LD50 (rat) 1480mg/kg.

### 12. Ecological information

**Ecotoxicity** : The product may be harmful to aquatic organisms.

### 13. Disposal considerations

**Methods of disposal ; Waste of residues ; Contaminated packaging** : Neutralise and transfer to suitable containers. Arrange for removal by a licensed contractor. Dispose of in accordance with all applicable local and national regulations.

**Waste Classification** : Not applicable.

### 14. Transport information

#### International transport regulations

**TREMCARD TEC(R)** 80G21c

### 15. Regulatory information

#### EU Regulations

**Hazard symbol(s)** :



**Classification** : Harmful

**Risk Phrases** : R22 Harmful if swallowed.

**Safety Phrases** : S24/25 Avoid contact with skin and eyes.

**Contains** : - IRON (II) SULPHATE HEPTAHYDRATE

**Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.  
- Consumer applications.

### 16. Other information

#### HISTORY

*(Please note that dates are in American format [month/day/year])*

**Date of printing** : 03/03/2006.

**Date of issue** : 03/03/2006.

**Date of previous issue** : 01/05/2001.

**Version** : 2

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#### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

#### **CHANGES SINCE PREVIOUS VERSIONS:**

Exposure limits added

**Version** 2

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