



## **MATERIAL SAFETY DATA SHEET**

### **PRODUCT: MANUTEC IRON SULPHATE – SOLUBLE**

Date Revised: January 2007

**THIS PRODUCT IS CLASSIFIED AS HAZARDOUS  
ACCORDING TO CRITERIA OF NOHSC AUSTRALIA**

#### **Manufacturer's Name and Address:**

MANUTEC PTY LTD  
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Cavan SA 5094 Australia

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#### **PRODUCT IDENTIFICATION**

<b>Product Trade Name:</b>	Iron Sulphate – Soluble
<b>Other Names:</b>	Ferrous Sulphate – Heptahydrate
<b>Manufacturer's Code:</b>	MTO0523/MBP1107
<b>UN Number:</b>	None allocated
<b>Dangerous Goods Class:</b>	None allocated
<b>Secondary Risk:</b>	None allocated
<b>Hazchem Code:</b>	None allocated
<b>Pack Group:</b>	None allocated
<b>EPG:</b>	None allocated
<b>Poisons Schedule:</b>	None allocated
<b>Use:</b>	Used as a fertiliser for overcoming iron deficiency in soils and pots.
<b>CAS No:</b>	7782-63-0

#### **PHYSICAL DESCRIPTION/PROPERTIES**

<b>Appearance:</b>	Odourless, hygroscopic blue-green crystalline powder.
<b>Boiling Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Flash Point Test:</b>	Not available.
<b>Melting Point:</b>	64 <sup>0</sup> C
<b>Specific Gravity:</b>	1.89 (water = 1)
<b>Flammability Limits:</b>	Not available.
<b>Solubility Matter:</b>	Soluble in water, 0.2% (max) insoluble

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**INGREDIENTS**

Iron present as Iron Sulphate Heptahydrate – 18.00% (min).  
Iron Sulphate Heptahydrate - 100.00% CAS No 7782-63-0

**HEALTH HAZARD INFORMATION**

**HEALTH EFFECTS – ACUTE**

**Swallowed:** Oral LD50 (mouse) = 1520 mg/kg. Short term exposure by ingestion is considered to be harmful. Effects from exposure may be delayed. Ingestion can result in nausea, vomiting, diarrhoea and abdominal pain. Ingestion of large doses can lead to cyanosis, pulmonary oedema and convulsions leading to coma.

**Eye:** An eye irritant.

**Skin:** Irritating. Dermal LD50 = Not available. Prolonged contact may result in irritation & itching and possible skin rash.

**Inhaled:** Inhalation LC50 = not available.  
Inhalation of dust will result in respiratory irritation.

**HEALTH EFFECTS – CHRONIC**

Evidence from animal tests is available to indicate the repeated or prolonged exposure to this chemical could result in damage to the liver and kidneys. Ingestion of large oral doses of soluble iron salts results in corrosive damage to the stomach and small intestine. Initial symptoms of poisoning clear in the first few hours and return 24 hours later with cyanosis, shock, convulsions, acidosis, hypothermia, and coma. Liver necrosis may occur two days after ingestion.

No data available.

**FIRST AID**

**Swallowed:** Thoroughly rinse mouth with water. Give water to drink. If vomiting occurs give further water to achieve effective dilution. Seek immediate medical assistance.

**Eye:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash contaminated skin. Seek immediate medical assistance.

**Skin:** Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before reuse. If swelling, redness, blistering or irritation occurs seek medical advice.



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**Inhaled:** Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

**First Aid Facilities:** Eye wash facility and safety shower are recommended.

**Advice to Doctor:** Treat symptomatically. Delayed pulmonary oedema may result.

**Toxicity Data:** No data available.

**PRECAUTIONS FOR USE**

**Exposure Standards:** No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).  
For iron salts, soluble as Fe : TLV – 1- mg/m<sup>3</sup>. As published by the National Health & Medical Research Council.

**Engineering Controls:** Use with adequate ventilation.

**Personal Protection:** Overalls, safety shoes, goggles, gloves, dust mask. Avoid skin and eye contact. Always wash hands before smoking, eating, drinking or using the toilet.

**Flammability:** Non combustible material.

**SAFE HANDLING INFORMATION**

**Storage/Transport:** Not defined as a Dangerous Good by the Australian Code for the transport of Dangerous Goods by Road and Rail. No special precautions required.

**Packaging/Labelling:** UN No: N/A                      Class: N/A  
Subs Risk:                              Hazchem Code: N/A  
Pack Group: N/A                      EPG No: N/A

**Hazard:** Not applicable.

**SPILLS AND DISPOSAL**

**Spills:** Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Sweep up, but avoid generating dust. Collect and seal in properly labelled drums for disposal.

**Disposal (after treatment Above):** Refer to State Land Waste Management Authority.



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### **FIRE AND EXPLOSION HAZARD**

Not combustible. Can decompose if involved in a fire emitting toxic fumes. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or products of decomposition.

**Extinguishing Media:** No data available.

**Contact Point:** Research/Technical Officer  
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30 Jonal Drive  
CAVAN SA 5094 Australia  
Tel: +618 8260 2277  
EMERGENCY ONLY: (24 hours) Poisons  
Information Centre 13 11 26

### **STATEMENT OF DISCLAIM**

This Material Safety Data Sheet has been developed according to Worksafe Australia/NOHSC Guidelines.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon the information.

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