

SAFETY DATA SHEET FOR

6 IRON

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY DETAILS

Product	6 Iron
Description of Product	Blue-green solution that turns brown on exposure to light and air.
Company	Sherriff Amenity, Cambridge House, Nottingham Road, Stapleford Nottinghamshire, NG9 8AB
Telephone	0115 9390202
Fax	0115 9398031
Emergency Advice	For specialist advice in an emergency, telephone 01978 314456 Office hours 8:30am – 5:00pm Monday-Thursday, finishing at 3pm on Friday Out of hours- please call mobile 07967 303568
Email	sales@sherriff-amenity.com
Web address	www.sherriff-amenity.com

2. COMPOSITION/INFORMATION

	Chemical Formulae	CAS No	EINECS No	%
Iron (II) Sulphate	FeSO ₄	7720-78-7	231-753-5	<20%w/w

3. HAZARDS IDENTIFICATION

Classification	Not considered harmful under CHIP3 regulations Less than 20% of Ferrous Sulphate which is classified as Xn: R R22: Harmful if swallowed and Xi: R36/38: Irritating to skin and eyes
Risk Phrases	None

4. FIRST AID MEASURES

Eyes	Immediately irrigate with eyewash solution or clean water holding the eyelids apart for at least 10 minutes and obtain medical attention.
Skin	After contact with skin, take off contaminated clothing immediately, and Wash straight away with plenty of water.
Ingestion	No hazard in normal industrial use. If swallowed, seek medical advice Immediately and show this SDS or label.
Inhalation	In case of accident by inhalation; remove casualty to fresh air and keep at rest. Seek medical attention if cough or other medical conditions develop.

5. FIRST AID MEASURES

Suitable Media	The product is NOT flammable.
Extinguishing Media	Use extinguisher to suit cause of fire.
Fire Fighting Equip	A self container breather apparatus and suitable protective clothing should be worn in fire conditions.
Fire Hazards	If heated above 600°C the material gives off acidic fumes or sulphur Trioxide which are toxic but not flammable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions	Do not let product enter drains. Local authorities should be advised if significant spillages cannot be contained.
Clean-up Methods	Mop up spills Sweep and wash away remainder with plenty of water but avoid contamination of natural watercourses.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes.
Storage	Store in a dry condition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes	Wear safety glasses or goggles.
Skin	Protect skin from prolonged exposure by wearing gloves.
Respiratory	Wear a dusk mask if required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solution
Colour	Green-blue solution turns brown upon exposure to light and air.
Odour	Characteristic
Boiling Point	Not applicable.
Solubility	Completely miscible in water
Bulk Density	1.11g/ml at 20 C
pH	pH 2 (approx)
Octanol Coefficient	Not applicable as insoluble in n-octanol
Oxidising Properties	No oxidising properties

10. STABILITY AND REACTIVITY

Stability	Aqueous solutions are oxidized slowly by air when cold, rapidly when hot; rate of oxidation increased by addition of alkali or exposure to light.
Materials to avoid	Oxidising agents
Decomposition Products	If heated to above 600°C gives off acidic fumes of SO ₃ . Hazardous Decomposition Product(s): Sulphur Trioxide SO ₃ .

11. TOXICOLOGICAL INFORMATION

Occupational Exposure Limits	LTEL (8 hour)	1 mg/m ³ OES as FE	[EH40/2002]
	STEL (15 min)	2 mg/m ³ OES for iron salts as FE	[EH40/2002]
	TLV	1 mg/m ³ for soluble iron salts as FE	[NIOSH/US]
	PEL	None stated	[OSCHA/US]
Toxicity	Ferrous Sulphate has been used as a general iron supplement in humans for many years without any reports of adverse long term health effects.		
	Intravenous	LD ₅₀ mice: 65mg/kg i.v.	Hoppe et al (1955)
	Oral Toxicity	LD ₅₀ mice: 1.52mg/kg	Hoppe et al (1955)
		LD ₅₀ rats: 319mg/kg	Yearly (1966)
Sensitising	Not sensitising	0.5, 1, 2.5 and 5% (w/w) aq. solutions of ferrous sulphate	Ishidate (1992)

12. TOXICOLOGICAL INFORMATION

Mobility	High water solubility
Degradability	The substance is readily oxidises to insoluble ferric oxides and sulphates
Bio-accumulation	Does not bio-accumulate
Ecotoxicity	Ferrous sulphate is reported as having no adverse effects on sewage organisms. Iron salts are commonly added to inland lakes, estuaries and waterways to remove the soluble phosphate that causes eutrophication and algal bloom. Excessive Ferrous Sulphate levels can result in oxygen depletion of water systems.

13. DISPOSABLE CONSIDERATIONS

Product Disposal	Dispose according to local legislation. Do not discharge directly in watercourse.
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14. TRANSPORT INFORMATION

UK Transport Info	Not classified as hazardous for transport.
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15. REGULATORY INFORMATION

Hazard Classification	None
Risk Phrases	None
Safety Phrases	None

16. OTHER INFORMATION

Data Sources	<p>This document has been compiled in accordance with CHIP3 (2002) Budavari S. (2001), <i>Merck Index: an Encyclopaedia of Chemicals, Drugs and Biologicals</i>, 13th Edition, Merck and Co. Inc. New Jersey CHIP3 (2002) <i>Chemicals (Hazard Information and Packaging for Supply). Regulations List</i>, HMSO Hoppe <i>et al</i>, (1955), <i>Am. J. Med. Sci.</i> 230, 491 Ishidate MJR (1992). <i>Toxicology</i>, 76, 283-292 NIOSH (2004), <i>Online NIOSH Pocket Guide to Chemical Hazards, National Technical Information Service, USA</i> http://www.cdc.gov/niosh/npg/npgd0346.html , [accessed on 5.11.04] IUCLID (2000), IUCLID Dataset, European Commission, European Chemicals Bureau. Yearly TA <i>et al</i>. (1966), <i>J. Pediatrics</i>, 69, 663-667</p>
Revisions	This safety data sheet supercedes the safety data sheet dated 1 st Sept 2003.
Legal Disclaimer	<p>1) Before any product is used, the label should be carefully read and current safety literature and information consulted.</p> <p>2) Information in this publication is believed to be accurate and given in good faith but it is for the customer to satisfy itself of the suitability for its own particular purpose. Accordingly Sherriff Amenity give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded to the extent that such extension is prevented by law.</p>

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