



# SAFETY DATA SHEET

## FERROUS SULPHATE

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

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PRODUCT NAME:	FERROUS SULPHATE
CHEMICAL NAME 2:	Ferrous sulphate heptahydrate
PART No.:	RM106
SUPPLIER:	J M Loveridge plc Southbrook Road, Southampton Hampshire SO15 1BH Tel: 023 8022 2008 Fax: 023 8022 2117

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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CAS No.:	7782-63-0
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### 3. HAZARDS IDENTIFICATION:

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Harmful if swallowed. Irritating to eyes and skin.

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### 4. FIRST AID MEASURES:

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GENERAL:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
INHALATION:	Move affected person from exposure. If recovery not rapid or complete seek medical attention.
INGESTION:	DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Obtain medical attention if adverse symptoms occur.
SKIN:	Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.
EYES:	Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

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### 5. FIRE FIGHTING MEASURES:

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EXTINGUISHING MEDIA:	Use extinguishing media suitable against surrounding fire or the cause of fire.
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<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Thermal decomposition may release noxious, corrosive or toxic vapours. - if heated above 600°C the material gives off acidic fumes of sulphur trioxide.
<b>PROTECTIVE MEASURES IN FIRE:</b>	Fire fighters should wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES:

<b>PERSONAL PRECAUTION IN SPILL:</b>	Avoid direct contact with skin, eyes and clothing.
<b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b>	Prevent contamination of soil, drains and surface water.
<b>SPILL CLEANUP METHODS:</b>	Cover spillage with damp inert material, take-up or collect and place into a suitable closable labelled container for disposal. Wash the area clean with water and detergent, observing environmental requirements.

## 7. HANDLING AND STORAGE:

<b>USAGE PRECAUTIONS:</b>	<b>HANDLING</b> - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid creating or raising dust. Avoid contact with skin or eyes.
<b>STORAGE PRECAUTIONS:</b>	Store in a cool, dry, well ventilated place, in securely closed original container.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

<b>INGREDIENT NAME:</b>	<b>CAS No.:</b>	<b>STD</b>	<b>LT EXP 8 Hrs</b>	<b>ST EXP 15 Min</b>
FERROUS SULPHATE	7782-63-0		1 mg/m3	2 mg/m3

<b>INGREDIENT COMMENTS:</b>	Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits; - listed as Iron salts (as Fe)
<b>VENTILATION:</b>	Provide adequate general and local exhaust ventilation.
<b>RESPIRATORS:</b>	If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection is recommended.
<b>PROTECTIVE GLOVES:</b>	Use protective gloves.
<b>EYE PROTECTION:</b>	Use eye protection.
<b>OTHER PROTECTION:</b>	Wear personal protective equipment appropriate to the quantity of material handled.
<b>HYGIENIC WORK PRACTICES:</b>	SKIN PROTECTION - apply barrier cream to hands and exposed skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Pale green crystalline solid.		
MELT/FREEZ. POINT (°C, interval):	mp : 64°C		
DENSITY/SPECIFIC GRAVITY (g/ml):	1.9		Temperature (°C):
SOLUBILITY DESCRIPTION:	Solutions in water are slightly acidic.		
SOLUBILITY VALUE (g/100g H2O 20°C):	33		

**DECOMPOSITION TEMP. (°C):** 600°C

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## 10. STABILITY AND REACTIVITY:

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**STABILITY:** Stable under normal conditions of use.

**CONDITIONS TO AVOID:** Avoid excessive heat.

**MATERIALS TO AVOID:** Oxidising agents.

**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition may release toxic and corrosive oxides of sulphur if heated above 600°C. - (sulphur trioxide).

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## 11. TOXICOLOGICAL INFORMATION:

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**TOXICOLOGICAL INFORMATION:** LD50. Oral. Mouse. 1530 mg/kg  
Ingestion of large doses may cause gastric irritation and possibly delayed metabolic effects.

**HEALTH HAZARDS, GENERAL:** May cause irritation to eyes, skin, and mucous membranes.

**OTHER HEALTH EFFECTS:** Used as general iron supplement in humans without any reports of adverse long term health effects.

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## 12. ECOLOGICAL INFORMATION:

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**ECOLOGICAL INFORMATION:** Unlikely to pose ecological risk. Iron salts are commonly used to remove phosphate contamination in lakes, estuaries and water-ways to prevent eutrophication.

**DEGRADABILITY:** Excessive amounts can potentially result in oxygen depletion of water systems.

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## 13. DISPOSAL CONSIDERATIONS:

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**DISPOSAL METHODS:** Via authorised/licenced waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

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## 14. TRANSPORT INFORMATION:

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**GENERAL:** Not classified as hazardous for transport.

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## 15. REGULATORY INFORMATION:

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**LABEL FOR SUPPLY:**

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<b>RISK PHRASES:</b>	R-22 Harmful if swallowed. R-36/38 Irritating to eyes and skin.
<b>SAFETY PHRASES:</b>	S-2 Keep out of reach of children. S-24/25 Avoid contact with skin and eyes. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-46 If swallowed seek medical advice immediately and show this container label.
<b>UK REGULATORY REFERENCES:</b>	Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

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## 16. OTHER INFORMATION:

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<b>INFORMATION SOURCES:</b>	This product has been classified in accordance with CHIP3 regulations.
<b>REVISION COMMENTS:</b>	Edition 01; Revised item(s):
<b>ISSUED BY:</b>	MK
<b>SDS No.:</b>	197
<b>DATE:</b>	12/07/02
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