

SAFETY DATA SHEET

MANGANESE SULPHATE.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product code	M05
Product name	MANGANESE SULPHATE.
Company	Norkem Limited Norkem House Bexton Lane Knutsford Cheshire WA16 9FB datasheet@norkem.com www.norkem.com
Telephone	00 44 (0)1565 755550
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Emergency telephone number	01865 407333 UK Transport only

2 HAZARDS IDENTIFICATION.

Main hazards	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Manganese sulphate	90 - 100%	7785-87-7	232-089-9	Xn; R48/20/22 N; R51/53

Description this SDS also covers CAS number 10034-96-5 (Monohydrate material).

4. FIRST AID MEASURES

Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.
Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.

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5. FIRE FIGHTING MEASURES

Extinguishing media	Use as appropriate: carbon dioxide (CO ₂), dry chemical, foam.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Ensure adequate ventilation of the working area.
Occupational exposure controls	COSHH - Due consideration should be given to your control systems and the need for assessment.
Protective equipment	Wear chemical protective clothing. Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Powder.
Colour	Violet.
Odour	Odourless.
Boiling point	850°C
Relative density	2.95
Water solubility	soluble in water.
Freezing Point	700°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Moisture. Burning produces irritating, toxic and obnoxious fumes.
Materials to avoid	Finely powdered metals. Strong acids. Strong oxidising agents. May react violently with Hydrogen Peroxide.
Hazardous decomposition products	Carbon oxides. Sulphur oxides.

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11. TOXICOLOGICAL INFORMATION

Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Abdominal pain, nausea, vomiting.
Inhalation	May cause irritation to respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity	May cause long-term adverse effects in the aquatic environment.
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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
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14. TRANSPORT INFORMATION

ADR/RID

UN	3077	Packing group	III
Class	9	Hazard ID	90
Proper Shipping	ENVIRONMENTALLY		
Name	HAZARDOUS SUBSTANCE, SOLID, N.O.S, (Manganese Sulphate).		

IMDG

UN	3077	Packing group	III
Class	9	Marine pollutant	.
EmS Code	F-A S-F		

IATA

UN	3077	Packing group	III
Class	9	Subsidiary risk	-
Packing Instruction	911	Maximum quantity	400 kg
	(Cargo)		
Packing Instruction	911	Maximum quantity	400 kg
	(Passenger)		

15. REGULATORY INFORMATION

Labelling The product is classified in accordance with 67/548/EEC.

Symbols Xn - Harmful; N - Dangerous for the environment



Risk phrases R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases S22 - Do not breathe dust.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

General information

The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

* Wherever possible we use returnable packaging and pallets. Details of these are on our Sales Contracts

* For any non-returnable packaging the cost of disposal is at your expense, but we do have a list of reprocessors available

* In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customers expense. Please ask for details with your specific requirements

* Any products supplied in returnable packaging is clearly marked to this effect.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.