Norkem

SAFETY DATA SHEET MANGANESE SULPHATE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	MANGANESE SU	ILPHATE			
REACH REGISTRATION NUMBER					
CAS-No.	10034-96-5				
EC No.	232-089-9				
PRODUCT NO.	M05				
SUPPLIER	Norkem Ltd Bexton Lane, Knutsford Cheshire, WA16 9FB UK T: + 44 (0)1565 755550 F: + 44 (0)1565 755496 datasheet@norkem.com T: 01270 502891 (UK Transport emergencies only)				
EMERGENCY TELEPHONE					
2 HAZARDS IDENTIFICATIO	N				
CLASSIFICATION (67/548)	Xn;R48/20/22. N;F	R51/53.			
CLASSIFICATION (EC 1272/2008)					
	Physical	Not classified.			
	Health	Eye Dam. 1 - H318;STOT Rep. 2 - H373			
	Environmental	Aquatic Chronic 2 - H411			
	LE				
SIGNAL WORD	Danger				
	Danger				
	Danger H318	Causes serious eye damage.			
	H318 H373	May cause damage to organs through prolonged or repeated exposure.			
HAZARD STATEMENTS	H318				
HAZARD STATEMENTS	H318 H373 H411	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.			
HAZARD STATEMENTS	H318 H373 H411 P260	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray.			
HAZARD STATEMENTS	H318 H373 H411 P260 P273	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment.			
HAZARD STATEMENTS	H318 H373 H411 P260	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray.			
HAZARD STATEMENTS	H318 H373 H411 P260 P273 P280	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
HAZARD STATEMENTS	H318 H373 H411 P260 P273 P280 P305/351/338 P310 P314	 May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 			
HAZARD STATEMENTS	H318 H373 H411 P260 P273 P280 P305/351/338 P310 P314 RY STATEMENTS	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.			
SIGNAL WORD HAZARD STATEMENTS PRECAUTIONARY STATEMENTS SUPPLEMENTARY PRECAUTIONA	H318 H373 H411 P260 P273 P280 P305/351/338 P310 P314	May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.			

4 FIRST-AID MEASURES

GENERAL INFORMATION

Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air. SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

When heated and in case of fire, irritating vapours/gases may be formed. In case of fire, toxic gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide adequate ventilation. Use protective gloves, goggles and suitable protective clothing.

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Do not contaminate water sources or sewer. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Use mechanical ventilation in case of handling which causes formation of dust. Avoid inhalation of dust.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA	- 8 hrs	STEL	- 15 min	Notes
MANGANESE SULPHATE	WEL		0,5 mg/m3			

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



MANGANESE SULPHATE

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust				
COLOUR	Violet				
ODOUR	Odourless				
SOLUBILITY	Soluble in water.				
BOILING POINT (°C)	850 @ 760 mm Hg	RELATIVE DENSITY	2.95		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Water, moisture. Toxic gases are generated when heated.

MATERIALS TO AVOID

Strong acids. Strong oxidising substances. Powdered metal. Inorganic peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Sulphurous gases (SOx).

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

INHALATION. Prolonged inhalation of high concentrations may damage respiratory system. SKIN CONTACT. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation. EYE CONTACT. May cause severe irritation to eyes. INGESTION.

The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.

TARGET ORGANS

Skin Eyes Respiratory system, lungs

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

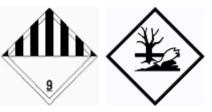
13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

MANGANESE SULPHATE



UK ROAD CLASS	9				
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
PROPER SHIPPING NAME	MANGANESE SULPHATE				
UN NO. ROAD	3077	UK ROAD PACK GR.	III		
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.		
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(E)		
HAZARD No. (ADR)	90	ADR LABEL NO.	9		
HAZCHEM CODE	2Z	CEFIC TEC(R) NO.	90GM7-III		
RID CLASS NO.	9	RID PACK GROUP	III		
UN NO. SEA	3077	IMDG CLASS	9		
IMDG PACK GR.	III	EMS	F-A, S-F		
UN NO. AIR	3077	AIR CLASS	9		
AIR PACK GR.	III				

15 REGULATORY INFORMATION

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations. **GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

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 customer's

expense. Please ask for details with your specific requirements

· Any products supplied in returnable packaging is clearly marked to this effect 02/12/2010

REVISION DATE

REV. NO./REPL. SDS GENERATED 3

DISCLAIMER

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.