

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/6

# Man-Sul

Revision 3 Revision date 2017-01-20

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Man-Sul

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Description** Fertiliser.

1.3. Details of the supplier of the safety data sheet

Company Omex Agriculture Ltd

Address Bardney Airfield

Tupholme Lincoln LN3 5TP

United Kingdom www.omex.co.uk

 Web
 www.omex.co.uk

 Telephone
 01526 396000

 Fax
 01526 396001

 Email
 enquire@omex.com

Email address of the competent person

Safety@omex.com

1.4. Emergency telephone number

Emergency telephone number

01526 396000

9 - 5 Mon - Fri

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC

Xn; R48/20/22 R52/53 Symbols: Xn: Harmful.

Main hazards

Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

2.1.2. Classification - EC

1272/2008

STOT RE 2: H373; Aquatic Chronic 3: H412;

# 2.2. Label elements

### Hazard pictograms



Signal Word

**Hazard Statement** 

Warning

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Revision 3 Revision date 2017-01-20

#### 2.2. Label elements

Precautionary Statement:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
Prevention	P273 - Avoid release to the environment.
Precautionary Statement:	P314 - Get medical advice/attention if you feel unwell.
Response	
Precautionary Statement:	P501 - Dispose of contents/container to
Disposal	

#### 2.3. Other hazards

Other hazards Harmful if swallowed, in contact with skin or if inhaled.

# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc.	Classification	M-factor.
				Number	(%w/w)		
Manganese sulphate	025-003-00-4	7785-87-7	232-089-9		20 - 30%	Xn; R48/20/22 N; R51/53	

### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Manganese sulphate	025-003-00-4	7785-87-7	232-089-9		20 - 30%	STOT RE 2: H373; Aquatic	
						Chronic 2: H411;	

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.  Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
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. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Harmful if swallowed. DO NOT INDUCE VOMITING. May cause irritation to mucous membranes. Seek medical attention if irritation or symptoms persist.

# 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to mucous membranes.			
Eye contact	May cause irritation to eyes.			
Skin contact	Wash off immediately with plenty of soap and water.			
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.			

# 4.3. Indication of any immediate medical attention and special treatment needed

	Treat according to symptoms, no known specific antidote.		
Inhalation	Remove the affected person from the source of contamination immediately.		
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.		
Skin contact	Wash off immediately with plenty of soap and water.		
Ingestion	Ingestion may cause nausea and vomiting.		

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.

# 5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.



Revision 3 Revision date 2017-01-20

		Nevision date 2017-01-20			
5.3. Advice for firefighters					
	Wear suitable respiratory equipment when necessary.				
SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
	Ensure adequate ventilation of the working	ng area. Wear suitable protective equipment.			
6.2. Environmental precautions					
	Do not allow product to enter drains. Prewater.	vent further spillage if safe. Do not flush into surface			
6.3. Methods and material for co	ntainment and cleaning up				
	• · · · · · · · · · · · · · · · · · · ·	Absorb with inert, absorbent material. Sweep up. for disposal. To clean the floor and all objects			
6.4. Reference to other sections					
	See section 2, 8, 13 for further information	on.			
SECTION 7: Handling and st	torage				
7.1. Precautions for safe handling	g				
	Ensure adequate ventilation of the working Manual Handling considerations when has	ng area. Avoid contact with eyes and skin. Adopt best andling, carrying and dispensing.			
7.2. Conditions for safe storage,	including any incompatibilities				
	Keep in a cool, dry, well ventilated area. temperatures between 5 °C and 20 °C.	Store in correctly labelled containers. Store at			
Suitable packaging	Plastic containers.				
7.3. Specific end use(s)					
	Fertiliser.				
SECTION 8: Exposure contr	ols/personal protection				
8.1. Control parameters					
8.1.1. Exposure Limit Values					
Manganese sulphate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.5			
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:			
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total			
	inhalable dust: WEL 8-hr limit mg/m3 total	inhalable dust: WEL 15 min limit mg/m3 total			
	respirable dust:	respirable dust:			
8.2. Exposure controls					
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.				
8.2.2. Individual protection measures	Wear suitable protective clothing.				
Eye / face protection	In case of splashing, wear:. Eye protection. Approved safety goggles.				

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



Chemical resistant gloves (PVC).

Wear suitable protective equipment.

Skin protection -

Handprotection
Respiratory protection

Revision 3 Revision date 2017-01-20

#### 9.1. Information on basic physical and chemical properties

Appearance Aqueous solution

Colour Pir

Odour Odourless

**pH** 4 - 5

Melting point Not determined

Initial boiling point Not determined

Flash point Not applicable.

Evaporation rate Not determined

Flammability (solid, gas) non-flammable

Vapour pressure Not determined

Vapour density Not determined

**Relative density** 1.34 - 1.38 (H2O = 1 @ 20 °C)

Soluble in water

Partition coefficient Not determined

Autoignition temperature Not applicable.

Solubility

Viscosity Not determined

**Explosive properties** Not applicable.

Oxidising properties Not applicable.

# 9.2. Other information

Conductivity Not determined

Surface tension Not determined

Specific gravity 1.34 - 1.38 g/cm³

Gas group Not determined

Benzene Content Not determined

Lead content Not determined

VOC (Volatile organic Not determined

compounds)

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No data is available on this product.

### 10.4. Conditions to avoid

No data is available on this product.

# 10.5. Incompatible materials

Will not decompose if stored and used as recommended.

# 10.6. Hazardous decomposition products

No data is available on this product.

# SECTION 11: Toxicological information

# 11.1.4. Toxicological Information

Not determined

# SECTION 12: Ecological information



Revision 3
Revision date 2017-01-20

12.1. Toxicity	Revision date 2017-01-2
	Not determined
	No data is available on this product. May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degrad	lability
	Warning - this preparation contains a substance not yet tested completely.
12.3. Bioaccumulative potenti	ial
	Caution - substance not yet fully tested.
Partition coefficient	
	Man-Sul Not determined Manganese sulphate Not applicable.
12.4. Mobility in soil	
,	Caution - substance not yet fully tested.
12.5. Results of PBT and vPv	/B assessment
	Warning - this preparation contains a substance not yet tested completely.
12.6. Other adverse effects	
	Warning - this preparation contains a substance not yet tested completely.
SECTION 13: Disposal co	unsiderations
13.1. Waste treatment method	
	Dispose of in compliance with all local and national regulations.
General information	
	Do NOT reuse empty containers.
Disposal methods	
	Can be sent to landfill if in compliance with local and national regulations.
Disposal of packaging	<u>'</u>
	Empty containers can be cleaned with water. Empty containers can be sent for disposal or recycling.
SECTION 14: Transport in	nformation
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping nan	ne .
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(	(es)
	The product is not classified as dangerous for carriage.
14.4. Packing group	<del></del>
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for	
	The product is not classified as dangerous for carriage.
14.7. Transport in bulk accord	ding to Annex II of MARPOL 73/78 and the IBC Code



Revision 3 Revision date 2017-01-20

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Regulations

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. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

#### 15.2. Chemical safety assessment

No data is available on this product.

### SECTION 16: Other information

#### Other information

Other Information	
Revision	This document differs from the previous version in the following areas:. 2 - 2.1. Classification of the substance or mixture. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Disposal.
Text of risk phrases in Section 3	15 - Labelling. 15 - 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.
Text of Hazard Statements in Section 3	STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .  Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Further information	
	The information consider this Cofety Data Chart is designed only as avidence for the only

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.

