

MAS-Power Mn

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product Name: **MAS-Power Mn**
Supplier: Engage Agro Europe Ltd
Chorley Business & Technology Centre
Euxton Lane,
Euxton, Chorley
Lancashire PR7 6TE
England
Telephone: +44 (0) 1257 226590



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

Product use: Fertiliser. For professional use only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Emergency telephone

Emergency Telephone	Type of Assistance	Opening Hours
0845 4647	England and Wales: NHS Direct – Health advice and assistance	24 Hours
08454 242424	Scotland: NHS24	24 Hours

Section 2: Hazards identification

2.1 Classification of the Substance and Mixture

CLP Regulation (EC) n°1272/2008: Classification of this product has been carried out in accordance with CLP Regulation (EC) N° 1272/2008.
Eye Irrit. 2: H319
STOT RE 2: H373
Aquatic Chronic 2: H411

2.2 Label elements

Hazard Statements: Eye Irrit.2: H319 - Causes serious eye irritation
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

Hazard Pictograms:



MAS-Power Mn

Signal words: Danger
Precautionary Statement: P280: Wear protective gloves/protective clothing/eye protection/face protection.
Prevention
Precautionary Statement:
Response
Precautionary Statement: P403+P233 - store in a well-ventilated place. Keep container tightly closed.
Storage
Precautionary Statement:
Disposal

2.3 Other Hazards

None known

Section 3: Composition/information on ingredients

3.1 Substances

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	EC Classification
Manganese Sulphate Monohydrate	30-40	10034-96-5	232-089-9	STOT RE 2, Aquatic Chronic 2, H373, H411
Citric Acid Monohydrate	1-5	5949-29-1	201-069-1	Eye Irrit. 2, H319

Section 4: First aid measures

4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention.

By inhalation: If inhaled, move person to fresh air. If not breathing give artificial respiration. Seek medical advice.
By skin contact: Wash area with soap and plenty of water. Seek medical advice.
By eye contact: Rinse eyes with water for at least 15 minutes. Seek medical advice.
By Ingestion: Rinse mouth with water. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

Most important known symptoms and effects are described in Section 2.

4.3 Indication of any immediate medical attention and special treatment needed

TREAT SYMPTOMATICALLY. If you feel unwell seek medical advice. Show the label where possible. Show this safety data sheet to the doctor in attendance

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: No data available

MAS-Power Mn

5.3 Advice for firefighters

Advice for fire-fighters: Use self-contained breathing apparatus for firefighters if necessary.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions: Prevent further spillages if safe to do so. Do not let product enter drains. Discharge in to the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: In the event of a spillage, evacuate area and attempt to contain and absorb with sand, earth or other inert material. Sweep up and place waste in sealed containers. Contact local authority for controlled waste disposal.

6.4 Reference to other sections

Reference to other sections: -

Section 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Always use PPE when handling/transporting chemicals.

7.2 Conditions for safe storage, including any incompatibilities

General conditions for storage: Keep containers tightly closed when not in use. Store in a cool, dry and well ventilated place.

7.3 Specific end use(s)

Specific end use(s): No data is available for this product.

Section 8: Exposure controls/personal protection

8.1 Control Parameters

Substances whose occupational exposure limits have to be monitored in the work environment.

Substance	Cas No.	LTEL (8hr TWA mg/m ³)	STEL (mg/m ³)	Note
Manganese Sulphate Monohydrate	10034-96-5	0.5	1.5	UK. EH40 WEL - Workplace Exposure Limits

DNEL (Workers): Non-applicable
DNEL (General population): Non-applicable
PNEC: Non-applicable

MAS-Power Mn

8.2 Exposure controls



A - General security and hygiene measures in the work place

Avoid contact with skin and eyes. Always use PPE when handling/transporting chemicals.

B - Specific Respiratory Protection

When necessary use of a full face particle respirator is recommended.

C - Specific protection for the hands

Chemical resistance gloves (i.e. nitrile) should be worn at all times when handling this material.

D - Ocular and facial protection

Use safety goggles.

E - Bodily protection

Protective clothing

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For further information See sections 6 and 13.

Volatile organic compounds

Non-applicable

MAS-Power Mn

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Pale pink
Odour:	-
pH (value)	1.8-3.0
Boiling Point:	No data available
Flash Point:	No data available
Flammable limits:	Non-flammable
Explosive Properties:	Not predicted to be explosive
Oxidising properties:	No data available
Vapour pressure	No data available
Density:	S.G. = 1.36-1.38
Solubility (water):	Miscible
Solubility (other):	No data available
Partition coefficient:	No data available
Viscosity:	No data available
Vapour density:	No data available
Relative evaporation rate:	No data available

9.2 Other Information

No data available

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity: No data available

10.2 Chemical stability

Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: None known

MAS-Power Mn

10.4 Conditions to avoid

Conditions to avoid: No data available

10.5 Incompatible materials

Incompatible materials: No data available

10.6 Hazardous decomposition products

Haz. Decomposition Products: No data available

Section 11: Toxicological information

11.1 Information on toxicological effects

Inhalation: No data available
Skin contact: No data available
Eye contact: No data available
Ingestion: No data available
Long term exposure: No data available

11.2 Specific toxicology information on the substances

No data available

MAS-Power Mn

Section 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB

12.6 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste Disposal: Should be disposed of by a licenced disposal company. Do not re-use packaging for any other purpose.

Disposal of packaging: Do not re-use. Use of a licenced disposal company is recommended.

MAS-Power Mn

Section 14: Transport information

Transport of dangerous goods by land With regard to ADR 2015 and RID 2015:	Transport of dangerous goods by sea With regard to IMDG 37-14
14.1 - UN number: UN3082	14.1 - UN number: UN3082
14.2 - UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Sulphate Monohydrate)	14.2 - UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Sulphate Monohydrate)
14.3 - Transport hazard class(es): ADR/RID:9 Labels: -	14.3 - Transport hazard class(es): IMDG: 9 Labels: -
14.4 - Packing group III	14.4 - Packing group III
14.5 - Dangerous for the env.: Yes	14.5 - Dangerous for the env.: Yes
14.6 - Special precautions for user Special regulations: Hazard ID - Tunnel restriction code: Category - Physico-Chemical properties: See section 9 Limited Quantities: Non-applicable	14.6 - Special precautions for user: Special regulations: Non-applicable EmS codes: F-A, S-F Physico-chemical properties: See section 9 Limited quantities: Non-applicable
14.7 - Transport in bulk according to Annex II of Marpol and IBC Code: Non-applicable	14.7 - Transport in bulk according to Annex II of Marpol and IBC code: Non-applicable
Transport of dangerous goods by air With regard to IATA/ICAO 2015:	
14.1 - UN number: UN1993	
14.2 - UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Sulphate Monohydrate)	
14.3 - Transport hazard class(es): 9 Labels: -	
14.4 - Packing group III	
14.5 - Dangerous for the environment: Yes	
14.6 - Special precautions for user Physico-Chemical properties: See section 9	
14.7 - Transport in bulk according to Annex II of Marpol and IBC Code: - Packing instruction (Cargo): - Maximum quantity: - Packing instruction (Passenger): - Maximum quantity: -	

MAS-Power Mn

Section 15: Regulatory information

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

Specific 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 with amendments.
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending regulation (EC)No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
REGULATION (EC) No 1727/2008 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of 16 December 2008 on classification, labelling and packaging of substances and mixture, amending and repealing Directives 6/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments
Regulation (EU) No 946/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on Persistent organic Pollutants and amending Directive 79/117/EC
European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2015

15.2 Chemical Safety Assessment

Chemical safety assessment: No data available

Section 16 Other information

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Modifications related to the previous security card which concerns the ways of managing risks:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) n° 1272/2008:

Eye Irrit. 2: H319 - Causes serious eye irritation
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

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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