### **MANGANESE SULPHATE**



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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifier:** MANGANESE SULPHATE

manganese sulphate (H2O)

CAS: 10034-96-5

**REACH:** 01-2119456624-35-XXXX

Other means of identification:

Not relevant

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

Relevant uses (Professional users): Fertilizer

For Professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

Details of the supplier of the safety data sheet: 1.3

Park Farm, Park Farm Road

LN1 2LD Kettlethorpe Nr Lincoln - England

Phone: +44 1522 425112 sds@nutrelgroup.co.uk www.hortifeeds.co.uk

**Emergency telephone number:** For Healthcare Professionals: 1.4

UK NPIS - 0344 892 0111

Ireland NPIC - (01) 837 9964, or (01) 809 2566

For General Public:

In an emergency, if the patient has collapsed or is not breathing properly, call 999. The NPIS does not provide poisons information directly to members of the public - for routine poisons advice you should contact your general practitioner or telephone NHS 111 (England) or NHS

24 (Scotland) on 111.

In Wales contact NHS Direct (Wales) on 111 - (currently available in the following health board areas - Hywel Dda, Powys, Aneurin Bevan and Swansea Bay - including Bridgend). If

you are outside this area, please call 0845 46 47.

# **SECTION 2: HAZARDS IDENTIFICATION**

# Classification of the substance or mixture:

# GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

### **Label elements:** 2.2

### GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Warning





### **Hazard statements:**

Aguatic Chronic 2: Toxic to aquatic life with long lasting effects.

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:** 

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# SECTION 2: HAZARDS IDENTIFICATION (continued)

Do not breathe dust

Avoid release to the environment.

Get medical advice/attention if you feel unwell.

Collect spillage.

Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

Chemical description: Mixture composed of inorganic substances

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

|                       | Identification | dentification Chemical name/Classification                                    |       |
|-----------------------|----------------|---|-------|
| CAS:<br>EC:<br>REACH: | 222 000 0      | manganese sulphate • (H2O) Aquatic Chronic 2: H411; STOT RE 2: H373 - Warning | 100 % |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification             |                      | Acute toxicity |  |
|----------------------------|----------------------|----------------|--|
| manganese sulphate · (H2O) | LD50 oral            | Not relevant   |  |
| CAS: 10034-96-5            | LD50 dermal          | Not relevant   |  |
| EC: 232-089-9              | LC50 inhalation dust | Not relevant   |  |

### 3.2 Mixture:

Not relevant

### **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 for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

### By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

### By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS for the product.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

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# SECTION 4: FIRST AID MEASURES (continued)

Not relevant

# **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 **Extinguishing media:**

### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

# Unsuitable extinguishing media:

Non-applicable

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

### For non-emergency personnel:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 **Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

### Methods and material for containment and cleaning up: 6.3

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

### Reference to other sections: 6.4

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and

C.- Technical recommendations on general occupational hygiene

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### Safety data sheet According to UK REACH (S.I. 2019/758)

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### SECTION 7: HANDLING AND STORAGE (continued)

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use vacuum extraction for cleaning. Given the environmental hazard of the product, it is advisable to use cleaning methods that minimize its dispersion into the surround

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification             | Occupational exposure limits |  |                        |
|----------------------------|------------------------------|--|------------------------|
| manganese sulphate · (H2O) | WEL (8h)                     |  | 0.05 mg/m <sup>3</sup> |
| CAS: 10034-96-5            | WEL (15 min)                 |  |                        |

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

### **DNEL (Workers):**

|                            |            | Short exposure |              | Long exposure |              |
|----------------------------|------------|----------------|--------------|---------------|--------------|
| Identification             |            | Systemic       | Local        | Systemic      | Local        |
| manganese sulphate · (H2O) | Oral       | Not relevant   | Not relevant | Not relevant  | Not relevant |
| CAS: 10034-96-5            | Dermal     | Not relevant   | Not relevant | 0.004 mg/kg   | Not relevant |
| EC: 232-089-9              | Inhalation | Not relevant   | Not relevant | Not relevant  | Not relevant |

### **DNEL (General population):**

|                            |            | Short e      | xposure      | Long ex                 | kposure      |
|----------------------------|------------|--------------|--------------|-------------------------|--------------|
| Identification             |            | Systemic     | Local        | Systemic                | Local        |
| manganese sulphate · (H2O) | Oral       | Not relevant | Not relevant | Not relevant            | Not relevant |
| CAS: 10034-96-5            | Dermal     | Not relevant | Not relevant | 0.002 mg/kg             | Not relevant |
| EC: 232-089-9              | Inhalation | Not relevant | Not relevant | 0.043 mg/m <sup>3</sup> | Not relevant |

### PNEC:

| Identification             |              |              |                         |             |
|----------------------------|--------------|--------------|-------------------------|-------------|
| manganese sulphate · (H2O) | STP          | 56 mg/L      | Fresh water             | 0.03 mg/L   |
| CAS: 10034-96-5            | Soil         | 25.1 mg/kg   | Marine water            | 0 mg/L      |
| EC: 232-089-9              | Intermittent | 0.088 mg/L   | Sediment (Fresh water)  | 0.011 mg/kg |
|                            | Oral         | Not relevant | Sediment (Marine water) | 0.001 mg/kg |

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have << UKCA marking>> or << CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

| Pictogram                                    | PPE   | Remarks  |
|--|---|--|
| Mandatory<br>respiratory tract<br>protection | Filter mask for gases and vapours (Filter type:<br>P3/FFP3) | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

### C.- Specific protection for the hands

| Pictogram                 | PPE                                       | Remarks  |
|---------------------------|---|--|
| Mandatory hand protection | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

### D.- Eye and face protection

| Pictogram                 | PPE         | Remarks  |
|---------------------------|-------------|--|
| Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions.<br>Use if there is a risk of splashing. |

### E.- Body protection

| Pictogram                          | PPE   | Remarks   |
|------------------------------------|---|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| Mandatory foot protection          | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.   |

### F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure | ure Standards Emergency measu                   |                  | Standards                                      |
|-------------------|---|------------------|--|
| •                 | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <b>*</b>         | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |
| Emergency shower  |   | Eyewash stations |  |

### **Environmental exposure controls:**

(Replaced 5)

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

### **Appearance:**

Physical state at 20 °C: Solid

Appearance: Not relevant \*
Colour: Not relevant \*
Odour: Not relevant \*
Odour threshold: Not relevant \*

Volatility:

Boiling point at atmospheric pressure:

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Not relevant \*

**Product description:** 

Density at 20 °C: Not relevant \* Not relevant \* Relative density at 20 °C: Dynamic viscosity at 20 °C: Not relevant \* Kinematic viscosity at 20 °C: Not relevant \* Kinematic viscosity at 40 °C: Not relevant \* Concentration: Not relevant \* pH: Not relevant \* Vapour density at 20 °C: Not relevant \* Partition coefficient n-octanol/water 20 °C: Not relevant \* Solubility in water at 20 °C: Not relevant \* Solubility properties: Not relevant \* Decomposition temperature: Not relevant \* Melting point/freezing point: Not relevant \*

Flammability:

Flash Point:

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Not relevant \*

Not relevant \*

Upper flammability limit:

Not relevant \*

**Explosive (Solid):** 

Lower explosive limit:

Upper explosive limit:

Not relevant \*

Not relevant \*

Particle characteristics:

Median equivalent diameter: Not relevant \*

### 9.2 Other information:

### Information with regard to physical hazard classes:

Explosive properties: Not relevant \*
Oxidising properties: Not relevant \*
Corrosive to metals: Not relevant \*
Heat of combustion: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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Not relevant \*



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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Aerosols-total percentage (by mass) of flammable

components:

Other safety characteristics:

Surface tension at 20 °C: Not relevant \* Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable      | Not applicable        | Avoid alkalis or strong bases |

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### Other information:

Not relevant

### Product-specific toxicological information:

| Acute toxicity       |               | Genus |  |
|----------------------|---------------|-------|--|
| LD50 oral            | >2000 mg/kg   | Rat   |  |
| LC50 inhalation dust | >5 mg/L (4 h) | Rat   |  |

### Specific toxicology information on the substances:

| Identification             | Acute toxicity       |               | Genus |
|----------------------------|----------------------|---------------|-------|
| manganese sulphate · (H2O) | LD50 oral            | >2000 mg/kg   | Rat   |
|                            | LD50 dermal          |               |       |
| EC: 232-089-9              | LC50 inhalation dust | >5 mg/L (4 h) | Rat   |

# SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

### 12.1 Toxicity:

### **Acute toxicity:**

| Identification             |      | Concentration       | Species | Genus      |
|----------------------------|------|---------------------|---------|------------|
| manganese sulphate · (H2O) | LC50 | >1 - 10 mg/L (96 h) |         | Fish       |
| CAS: 10034-96-5            | EC50 | >1 - 10 mg/L (48 h) |         | Crustacean |
|                            | EC50 | >1 - 10 mg/L (72 h) |         | Algae      |

### 12.2 Persistence and degradability:

Not relevant

### 12.3 Bioaccumulative potential:

Not relevant

### 12.4 Mobility in soil:

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Not relevant

### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

| Code      | Description                            | Waste class |  |
|-----------|--|-------------|--|
| 06 10 02* | wastes containing hazardous substances | Hazardous   |  |

### Type of waste:

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

### Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

### **SECTION 14: TRANSPORT INFORMATION**

### Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:



14.1 UN number: UN3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 14.2 UN proper shipping name:

Not relevant

(manganese sulphate · (H2O))

14.3 Transport hazard class(es):

Labels: 9

14.4 Packing group: III14.5 Environmental hazards: Yes

14.6 Special precautions for user

Tunnel restriction code:

Physico-Chemical properties: see section 9

Limited quantities: 5 ka

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

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# SECTION 14: TRANSPORT INFORMATION (continued)

**14.1 UN number:** UN3077

**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(manganese sulphate · (H2O))

14.3 Transport hazard class(es): 9

Labels: 9

14.4 Packing group: III14.5 Marine pollutant: Yes

14.6 Special precautions for user

Special regulations: 335, 966, 274, 967, 969

EmS Codes: F-A, S-F
Physico-Chemical properties: see section 9
Limited quantities: 5 kg

Segregation group: Not relevant **14.7 Transport in bulk according** Not relevant

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:

14.1 UN number:

UN3077

**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (manganese sulphate · (H2O))

**14.3** Transport hazard class(es): 9

Labels: 9
14.4 Packing group: III
14.5 Environmental hazards: 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

the IBC Code:

Not relevant

# SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

### The Control of Major Accident Hazards Regulations 2015:

| Section | Description           | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2      | ENVIRONMENTAL HAZARDS | 200                     | 500                     |

# Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Not relevant

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

The Fertilisers and Ammonium Nitrate Material (Amendment) (EU Exit) Regulations 2019.

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### **SECTION 16: OTHER INFORMATION**

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

### Texts of the legislative phrases mentioned in section 2:

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

### GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### **Principal bibliographical sources:**

http://echa.europa.eu http://eur-lex.europa.eu

### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

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(Replaced 5)

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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