SAFETY DATA SHEET
GREENTEC 4-0-10+9FE

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

1.1. Product identifier

Product name           GREENTEC 4-0-10+9FE
Product number         EXP001/25

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

Identified uses        Fertiliser for use on managed amenity turf

1.3. Details of the supplier of the safety data sheet

Supplier               Headland Amenity Ltd
                        1 Burr Elm Court
                        Main Street
                        Caldecote
                        Cambridge
                        Cambridgeshire
                        CB23 7NU
                        Tel. +44 (0)1223 491090
                        sds.enquiries@headlandamenity.com

Contact person         Wendy Johnson

1.4. Emergency telephone number

Emergency telephone    +44 (0)1223 491090 (9.00 - 5.00 GMT Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards       Not Classified
Health hazards          Eye Irrit. 2 - H319
Environmental hazards   Not Classified

2.2. Label elements

Pictogram

Signal word           Warning
Hazard statements      H319 Causes serious eye irritation.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Single Component</th>
<th>Percentage</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE SUPERPHOSPHATE</td>
<td>10-30%</td>
<td>8011-76-5</td>
<td>232-379-5</td>
<td>01-2119488967-11-XXXXX</td>
</tr>
<tr>
<td>IRON (II) SULFATE (1:1) HEPTAHYDRATE</td>
<td>5-10%</td>
<td>7782-63-0</td>
<td>231-753-5</td>
<td>01-2119513203-57-XXXXX</td>
</tr>
<tr>
<td>SULPHURIC ACID</td>
<td>&lt;1%</td>
<td>7664-93-9</td>
<td>231-639-5</td>
<td></td>
</tr>
<tr>
<td>MANGANESE SULPHATE</td>
<td>&lt;1%</td>
<td>7785-87-7</td>
<td>232-089-9</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

- **Eye Irrit. 2 - H319**
- **Acute Tox. 4 - H302**
- **Skin Irrit. 2 - H315**
- **Skin Corr. 1A - H314**
- **Eye Dam. 1 - H318**
- **STOT RE 2 - H373**
- **Aquatic Chronic 2 - H411**

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**
The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation**
Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if symptoms are severe or persist.

**Ingestion**
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any symptoms develop.

**Skin contact**
Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
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Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if
irritation persists after washing.

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

Inhalation
There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion
There may be soreness and redness of the mouth and throat.

Skin contact
Skin contact may cause redness and irritation.

Eye contact
Irritation and redness, followed by blurred vision. Profuse watering of the eyes. May cause
permanent damage.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting
No specific firefighting precautions known. Cool containers exposed to heat with water spray
and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective
clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Stop leak if safe to do so. Collect spillage. Flush contaminated area with plenty of water.
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections
Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Open container with care to avoid generating dust. Provide adequate ventilation. Avoid
spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SULPHURIC ACID
Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m³ mist (thoracic fraction)

MANGANESE SULPHATE
Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m³ respirable dust
WEL = Workplace Exposure Limit

SINGLE SUPERPHOSPHATE (CAS: 8011-76-5)

DNEL
Workers - Inhalation; Long term systemic effects: 3.1 mg/m³
Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.9 mg/m³
General population - Oral; Long term systemic effects: 2.1 mg/kg/day
General population - Dermal; Long term systemic effects: 10.4 mg/kg/day

PNEC
- Fresh water; 1.7 mg/l
- Marine water; 0.17 mg/m³
- Intermittent release; 17 mg/l
- STP; 10 mg/l

MANGANESE SULPHATE (CAS: 7785-87-7)

DNEL
Workers - Dermal; systemic effects: 0.00414 mg/kg/day
Workers - Inhalation; systemic effects: 0.2 mg/m³
Consumer - Dermal; systemic effects: 0.0021 mg/kg/day
Consumer - Inhalation; systemic effects: 0.043 mg/m³

PNEC
- Fresh water; 0.0128 mg/l
- Marine water; 0.0004 mg/l
- Sediment (Freshwater); 0.0114 mg/kg
- Sediment (Marinewater); 0.0014 mg/kg
- Soil; 25.1 mg/kg
- STP; 56 mg/l

8.2. Exposure controls

Protective equipment
Appropriate engineering controls
Provide adequate ventilation.
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Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Provide eyewash station.

Hand protection

Wear protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin 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. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Granules.</td>
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<tr>
<td>Colour</td>
<td>Brown.</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight.</td>
</tr>
<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available.</td>
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<tr>
<td>Initial boiling point and range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Mixture not classed as flammable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available.</td>
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<tr>
<td>Vapour density</td>
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</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density</td>
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<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Does not meet the criteria for classification as oxidising.</td>
</tr>
</tbody>
</table>

9.2. Other information
Other information
No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product. Stable under recommended transport or storage conditions.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat.

10.5. Incompatible materials
Materials to avoid

10.6. Hazardous decomposition products
Hazardous decomposition products
In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects
No information available.

Acute toxicity - oral
ATE oral (mg/kg) 5,447.39

Inhalation
There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Ingestion
There may be soreness and redness of the mouth and throat.

Skin contact
May cause skin irritation.

Eye contact
There may be irritation and redness. Profuse watering of the eyes.

SECTION 12: Ecological Information

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability
Persistence and degradability
The product is biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential
Bioaccumulation is unlikely.

Partition coefficient
No information available.

12.4. Mobility in soil
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12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects
Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information
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Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 18/05/2016
Revision 5
Supersedes date 04/09/2015
SDS number 20261

Risk phrases in full
R22 Harmful if swallowed.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
R41 Risk of serious damage to eyes.

Hazard statements in full
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

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.