SAFETY DATA SHEET
H-COTE MINI 22-3-8

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

1.1. Product identifier
Product name: H-COTE MINI 22-3-8

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: Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards: Not Classified

2.2. Label elements
Pictogram

Signal word: Warning
Hazard statements: H315 Causes skin irritation.
H319 Causes serious eye irritation.
**H-COTE MINI 22-3-8**

### Precautionary statements
- **P264** Wash contaminated skin thoroughly after handling.
- **P280** Wear protective gloves, protective clothing and eye protection.
- **P302+P352 IF ON SKIN:** Wash with plenty of water.
- **P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P332+P313** If skin irritation occurs: Get medical advice/attention.
- **P337+P313** If eye irritation persists: Get medical advice/attention.

### Supplementary precautionary statements
- **P501** Dispose of contents/container in accordance with national regulations.

### 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>Ingredient</th>
<th>CAS number</th>
<th>Classification</th>
<th>Mix (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XCU 41-0-0</strong></td>
<td></td>
<td>Skin Irr. 2 - H315</td>
<td>30-60%</td>
</tr>
<tr>
<td><strong>SINGLE SUPERPHOSPHATE</strong></td>
<td>8011-76-5</td>
<td>Eye Irrit. 2 - H319</td>
<td>5-10%</td>
</tr>
<tr>
<td><strong>AMMONIUM SULPHATE</strong></td>
<td>7783-20-2</td>
<td>Not Classified</td>
<td>5-10%</td>
</tr>
<tr>
<td><strong>CALCIUM SULPHATE DEHYDRATE</strong></td>
<td>7778-18-9</td>
<td>Not Classified</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

**Additional Information:**
- **CAS number:** —
- **EC number:** 232-379-5, 231-984-1, 231-900-3
- **REACH registration number:** 01-2119488967-11-XXXX, 01-2119455044-46-XXXX, 01-2119444918-26-XXXX

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**IRON II SULPHATE**

CAS number: 7720-78-7  
EC number: 231-753-5  
REACH registration number: 01-2119513203-57-0022

**Classification**
- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319

**SULPHURIC ACID**

CAS number: 7664-93-9  
EC number: 231-639-5

**Classification**
- Skin Corr. 1A - H314
- Eye Dam. 1 - H318

**MANGANESE SULPHATE**

CAS number: 7785-87-7  
EC number: 232-089-9  
REACH registration number: 01-2119456624-35-XXXX

**Classification**
- 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.

**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
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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
AMMONIUM SULPHATE
Long-term exposure limit (8-hour TWA): WEL Total inhalable - 10 mg/m³ Respirable - 4 mg/m³ respirable dust
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CALCIUM SULPHATE DEHYDRATE
Long-term exposure limit (8-hour TWA): TWA 10 mg/m³ Plaster
Long-term exposure limit (8-hour TWA): TWA 4 mg/m³ Plaster

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 (Marine water); 0.0014 mg/kg
|      | - Soil; 25.1 mg/kg
|      | - STP; 56 mg/l

8.2. Exposure controls

Protective equipment
Provide adequate ventilation.

Appropriate engineering controls

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.
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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>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Granules.</td>
</tr>
<tr>
<td>Colour</td>
<td>Mixture of light blue, yellow, green, white and brown granules.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available.</td>
</tr>
<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 explosive limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<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  
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.
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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)
37,878.79

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
Mobility
No information available.

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.
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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

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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

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

SECTION 16: Other information

Revision comments This is the first issue.
Revision date 28/09/2018
Revision 1
SDS number 20533
H-COTE MINI 22-3-8

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.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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.