SAFETY DATA SHEET
SOLUFEED HI-K 13-0-45

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

1.1. Product identifier
Product name: SOLUFEED HI-K 13-0-45
Product number: WSF005/20

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: Ox. Sol. 2 - H272
Health hazards: Not Classified
Environmental hazards: Not Classified

2.2. Label elements
Pictogram
Signal word: Danger
Hazard statements: H272 May intensify fire; oxidiser.
SOLUFEED HI-K 13-0-45

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P280 Wear protective gloves and eye protection.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
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

Composition comments The data shown are in accordance with the latest EC Directives. No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

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.

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

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.

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 There may be mild irritation at the site of contact.

Eye contact There may be irritation and redness.

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 Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards Oxidising.

Hazardous combustion products Toxic gases or vapours.

5.3. Advice for firefighters
SOLUFEED HI-K 13-0-45

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 and place in suitable waste disposal containers and seal securely. 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. Keep away from heat. Store away from incompatible materials (see Section 10).

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

8.2. Exposure controls
Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

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.
SOLUFEED HI-K 13-0-45

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
Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

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>
</tr>
<tr>
<td>Colour</td>
<td>Blue</td>
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<tr>
<td>Odour</td>
<td>No characteristic odour.</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>
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<tr>
<td>Initial boiling point and range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</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>
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</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
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<tr>
<td>Bulk density</td>
<td>No information available.</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>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
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<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>Ox. Sol. 2 (mean burning time ≤ that of a 2:3 mixture, by mass of potassium bromate and cellulose). As determined by test for Oxidising Properties of Solids (UN) to GLP.</td>
</tr>
</tbody>
</table>

9.2. Other information

Other information
No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity
Stable under recommended transport or storage conditions.
10.2. Chemical stability
Stability
Stable at normal ambient temperatures. Stable under normal conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Under normal conditions of storage and use, no hazardous reactions will occur. Decomposition may occur on exposure to conditions or materials listed below.

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.

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
There may be mild irritation at the site of contact.

Eye contact
There may be irritation and redness.

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.

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

<table>
<thead>
<tr>
<th>UN No. (ADR/RID)</th>
<th>1479</th>
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<tbody>
<tr>
<td>UN No. (IMDG)</td>
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<tr>
<td>UN No. (ICAO)</td>
<td>1479</td>
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<tr>
<td>UN No. (ADN)</td>
<td>1479</td>
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14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper shipping name (ADR/RID)</th>
<th>OXIDIZING SOLID, N.O.S. (Potassium nitrate)</th>
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</thead>
<tbody>
<tr>
<td>Proper shipping name (IMDG)</td>
<td>OXIDIZING SOLID, N.O.S. (Potassium nitrate)</td>
</tr>
<tr>
<td>Proper shipping name (ICAO)</td>
<td>OXIDIZING SOLID, N.O.S. (Potassium nitrate)</td>
</tr>
<tr>
<td>Proper shipping name (ADN)</td>
<td>OXIDIZING SOLID, N.O.S. (Potassium nitrate)</td>
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</table>

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR/RID class</th>
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<tr>
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<tr>
<td>IMDG class</td>
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<tr>
<td>ICAO class/division</td>
<td>5.1</td>
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<tr>
<td>ADN class</td>
<td>5.1</td>
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<td>Transport labels</td>
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</table>

14.4. Packing group

<table>
<thead>
<tr>
<th>ADR/RID packing group</th>
<th>II</th>
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<tbody>
<tr>
<td>IMDG packing group</td>
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<tr>
<td>ADN packing group</td>
<td>II</td>
</tr>
<tr>
<td>ICAO packing group</td>
<td>II</td>
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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

<table>
<thead>
<tr>
<th>EmS</th>
<th>F-A, S-Q</th>
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<td>ADR transport category</td>
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SOLUFEED HI-K 13-0-45

Emergency Action Code  1Y
Hazard Identification Number (ADR/RID)  50
Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

Revision comments  NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date  19/05/2016
Revision  4
Supersedes date  04/09/2015
Hazard statements in full  H272 May intensify fire; oxidiser.

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.