SAFETY DATA SHEET
MULTIVERDO 13-0-46

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

1.1. Product identifier

Product name: MULTIVERDO 13-0-46
Product number: CNF005/25

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: Ox. Sol. 3 - H272
Health hazards: Not Classified
Environmental hazards: Not Classified

Classification (67/548/EEC or 1999/45/EC) O;R8.

2.2. Label elements

Pictogram

Signal word: Warning
Hazard statements: H272 May intensify fire; oxidiser.
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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 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

POTASSIUM NITRATE 0-100%
CAS number: 7757-79-1
EC number: 231-818-8
REACH registration number: 01-2119488224-35-XXXX

Classification
Ox. Sol. 3 - H272

Classification (67/548/EEC or 1999/45/EC)
O; R8. E; R9

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.

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. Gastrointestinal discomfort. Nausea, vomiting. Diarrhoea.

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

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.
5.2. Special hazards arising from the substance or mixture

Specific hazards
Oxidising.

Hazardous combustion products
Toxic gases or vapours. Nitrous gases (NOx). Oxides of potassium.

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 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

POTASSIUM NITRATE (CAS: 7757-79-1)

DNEL
General population - Oral; : 12.5 mg/kg/day
Workers - Dermal; : 20.8 mg/kg/day
General population - Dermal; : 12.5 mg/kg/day
Workers - Inhalation; : 36.7 mg/m³
General population - Inhalation; : 10.9 mg/m³
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PNEC
- Fresh water; Long term 0.45 mg/l
- Marine water; Long term 0.045 mg/l
- Water; Short term 4.5 mg/l
- STP; Long term 18 mg/l

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.

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

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<th>Value</th>
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<tr>
<td>Relative density</td>
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</tbody>
</table>
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**Bulk density**
No information available.

**Partition coefficient**
No information available.

**Auto-ignition temperature**
No information available.

**Decomposition Temperature**
No information available.

**Viscosity**
No information available.

**Explosive properties**
Not considered to be explosive.

**Oxidising properties**
Ox. Sol. 3 (mean burning time ≤ that of a 3:7 mixture, by mass of potassium bromate and cellulose).

**9.2. 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. Unstable when exposed to moisture.

**10.5. Incompatible materials**
Materials to avoid

**10.6. Hazardous decomposition products**
Hazardous decomposition products
In combustion emits toxic fumes. Nitrous gases (NOx). Oxides of potassium.

**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. Gastrointestinal discomfort. Nausea, vomiting. Diarrhoea.

**Ingestion**
There may be soreness and redness of the mouth and throat. Bloody bowel movement.

**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.
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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  The product is soluble in water.

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  May cause eutrophication.

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

UN No. (ADR/RID)  1486
UN No. (IMDG)  1486
UN No. (ICAO)  1486
UN No. (ADN)  1486

14.2. UN proper shipping name

Proper shipping name (ADR/RID)  POTASSIUM NITRATE
Proper shipping name (IMDG)  POTASSIUM NITRATE
Proper shipping name (ICAO)  POTASSIUM NITRATE
Proper shipping name (ADN)  POTASSIUM NITRATE

14.3. Transport hazard class(es)

ADR/RID class  5.1
ADR/RID classification code  O2
ADR/RID label  5.1
IMDG class  5.1
ICAO class/division  5.1
ADN class  5.1
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Transport labels

14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-A, S-Q
ADR transport category 3
Emergency Action Code 1Z
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


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 5
Supersedes date 04/09/2015
Risk phrases in full R8 Contact with combustible material may cause fire.
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.