



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 CNF007

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 Windscheffel

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

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 protective gloves/protective clothing/eye protection/face 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	Classification (67/548/EEC or 1999/45/EC)	
Ox. Sol. 3 - H272	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 Alcohol or polymer foam. Water spray. Carbon dioxide (CO₂). Dry chemical powder.

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5.2. Special hazards arising from the substance or mixture

Specific hazards	Oxidising.
Hazardous combustion products	Toxic gases or vapours. Nitrous gases (NO _x). 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.
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6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. Scoop/sweep/shovel spill into closing containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

Reference to other sections	Collect and dispose of spillage as indicated in Section 13.
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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.
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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.
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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 and heat sources. Store away from incompatible materials (see Section 10).
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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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/m ³
	General population - Inhalation; : 10.9 mg/m ³

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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

Ensure there is sufficient ventilation of the area.

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 hands 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

Appearance	Granules.
Colour	White.
Odour	No characteristic odour.
Odour threshold	No information available.
pH	No information available.
Melting point	>210°C
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	900-1200 kg/m ³

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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 \leq that of a 3:7 mixture, by mass of potassium bromate and cellulose).

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under recommended transport or storage conditions.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures. Stable under normal conditions.
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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.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat. Unstable when exposed to moisture.
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10.5. Incompatible materials

Materials to avoid	Flammable/combustible materials. Reducing agents. Powdered metal. Strong acids. Organic material.
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10.6. Hazardous decomposition products

Hazardous decomposition products	In combustion emits toxic fumes. Nitrous gases (NO _x). Oxides of potassium.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	No information available.
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Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. Gastrointestinal discomfort. Nausea, vomiting. Diarrhoea.
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Ingestion	There may be soreness and redness of the mouth and throat. Bloody bowel movement.
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Skin contact	There may be mild irritation at the site of contact.
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Eye contact	There may be irritation and redness.
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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 This product is not considered to bioaccumulate.

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 MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Supplier contact and emergency contact details updated.
Revision date	04/09/2015
Revision	4
Supersedes date	24/06/2015
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.