SAFETY DATA SHEET
HEADLAND JETT

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

1.1. Product identifier
Product name: HEADLAND JETT
Product number: SOT005/10

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Soluble micronutrient for foliar application.

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: Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 2 - H373
Environmental hazards: Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram:

Signal word: Danger
Hazard statements:
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
HEADLAND JETT

Precautionary statements

P260 Do not breathe vapour/spray.
P280 Wear protective gloves, protective clothing and eye protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.

Contains

MANGANESE DINITRATE

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321 Specific treatment (see medical advice on this label).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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<tr>
<th>MANGANESE DINITRATE</th>
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<td>EC number: 233-828-8</td>
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<th>Classification (67/548/EEC or 1999/45/EC)</th>
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<tr>
<td>Ox. Sol. 2 - H272</td>
<td>O; R8. Xn; R22, R48/20/21/22. C; R34. R52/53</td>
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<tr>
<td>Acute Tox. 4 - H302</td>
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<tr>
<td>Skin Corr. 1B - H314</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
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<tr>
<td>STOT RE 2 - H373</td>
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<tr>
<td>Aquatic Chronic 3 - H412</td>
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<table>
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<tbody>
<tr>
<td>Ox. Liq. 3 - H272</td>
<td>O; R8 C; R35</td>
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<tr>
<td>Skin Corr. 1A - H314</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
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</table>

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
HEADLAND JETT

Inhalation Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Get medical attention immediately.

Ingestion Rinse mouth. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately.

Skin contact Remove any contaminated clothing and launder before re-use. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

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 and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Ingestion Corrosive burns may appear around the lips. Blood may be vomited. There may be difficulty swallowing.

Skin contact Causes severe burns. Progressive ulceration will occur if treatment is not immediate.

Eye contact Corneal burns may occur. May cause permanent damage.

4.3. Indication of any immediate medical attention and special treatment needed
Specific treatments Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards Corrosive.

Hazardous combustion products In combustion emits toxic fumes.

5.3. Advice for firefighters
Protective actions during firefighting Containers close to fire should be removed or cooled with water.

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

6.2. Environmental precautions
Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up Clean-up should be dealt with only by qualified personnel familiar with the specific substance. To prevent release, place container with damaged side up. Absorb in vermiculite, dry sand or earth and place into containers. Contain the spillage using bunding.
6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid any direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid the formation of mists. 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. Store at temperatures above 5°C.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits
NITRIC ACID
Short-term exposure limit (15-minute): WEL 1 ppm 2.6 mg/m³
WEL = Workplace Exposure Limit

8.2. Exposure controls

Appropriate engineering controls
Ensure there is sufficient ventilation of the area.

Eye/face protection
Wear chemical splash goggles. Ensure eye bath is available.

Hand protection
Acid-resistant protective gloves. PVC gloves.

Other skin and body protection
Wear impermeable protective clothing.

Respiratory protection
Respiratory protection not required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Red-brown.

Odour
Barely perceptible.

Odour threshold
No information available.

pH
pH (concentrated solution): <2

Melting point
No information available.

Initial boiling point and range
No information available.

Flash point
No information available.

Evaporation rate
No information available.
HEADLAND JETT

Evaporation factor: No information available.
Flammability (solid, gas): Mixture not classified as flammable.
Upper/lower flammability or explosive limits: Not applicable.
Vapour pressure: No information available.
Vapour density: No information available.
Relative density: ~ 1.47
Bulk density: No information available.
Solubility(ies): Soluble in water.
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.
Explosive under the influence of a flame: Not considered to be explosive.
Oxidising properties: Does not meet the criteria for classification as oxidising. As determined by testing - EC Test A21.

9.2. Other information
Other information: No other relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability
Stability: 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.

10.4. Conditions to avoid
Conditions to avoid: Avoid heat.

10.5. Incompatible materials
Materials to avoid: Strong reducing agents. Alkalis.

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects
HEADLAND JETT

Toxicological effects
No information available.

Acute toxicity - oral
ATE oral (mg/kg) 1,000.0

Inhalation
Shortness of breath. Burning sensation in the throat. Exposure may cause coughing or wheezing.

Ingestion
Corrosive burns may appear around the lips. Blood may be vomited. There may be difficulty swallowing.

Skin contact
Causes severe burns. Progressive ulceration will occur if treatment is not immediate.

Eye contact
Corneal burns may occur. May cause permanent damage.

SECTION 12: Ecological Information

12.1. Toxicity
Toxicity No data available.

12.2. Persistence and degradability
Persistence and degradability No data available.

12.3. Bioaccumulative potential
Bioaccumulative potential No data available on bioaccumulation.
Partition coefficient No information available.

12.4. Mobility in soil
Mobility Readily absorbed into soil.

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 Harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information 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) 1760
UN No. (IMDG) 1760
UN No. (ICAO) 1760
UN No. (ADN) 1760

14.2. UN proper shipping name
HEADLAND JETT

Proper shipping name (ADR/RID)  CORROSIVE LIQUID, N.O.S. (CONTAINS MANGANESE DINITRATE, NITRIC ACID)
Proper shipping name (IMDG)  CORROSIVE LIQUID, N.O.S. (CONTAINS MANGANESE DINITRATE, NITRIC ACID)
Proper shipping name (ICAO)  CORROSIVE LIQUID, N.O.S. (CONTAINS MANGANESE DINITRATE, NITRIC ACID)
Proper shipping name (ADN)  CORROSIVE LIQUID, N.O.S. (CONTAINS MANGANESE DINITRATE, NITRIC ACID)

14.3. Transport hazard class(es)
ADR/RID class  8
ADR/RID classification code  C9
ADR/RID label  8
IMDG class  8
ICAO class/division  8
ADN class  8
Transport labels

14.4. Packing group
ADR/RID packing group  II
IMDG packing group  II
ADN packing group  II
ICAO packing group  II

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

14.6. Special precautions for user
EmS  F-A, S-B
ADR transport category  2
Emergency Action Code  2X
Hazard Identification Number (ADR/RID)  80
Tunnel restriction code  (E)

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

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

18/05/2016

Revision

3

Supersedes date

04/09/2015

Risk phrases in full

R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful 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.