



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.

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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

MANGANESE DINITRATE	30-50%
CAS number: 10377-66-9	EC number: 233-828-8
	REACH registration number: 01-2119487993-17-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Ox. Sol. 2 - H272	O; R8. Xn; R22, R48/20/21/22. C; R34. R52/53
Acute Tox. 4 - H302	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT RE 2 - H373	
Aquatic Chronic 3 - H412	

NITRIC ACID	<1%
CAS number: 7697-37-2	EC number: 231-714-2

Classification	Classification (67/548/EEC or 1999/45/EC)
Ox. Liq. 3 - H272	O;R8 C;R35
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

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

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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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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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

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Toxicological effects	No information available.
<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	1,000.0
<u>Inhalation</u>	
	Shortness of breath. Burning sensation in the throat. Exposure may cause coughing or wheezing.
<u>Ingestion</u>	
	Corrosive burns may appear around the lips. Blood may be vomited. There may be difficulty swallowing.
<u>Skin contact</u>	
	Causes severe burns. Progressive ulceration will occur if treatment is not immediate.
<u>Eye contact</u>	
	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

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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 Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

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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).
Commission Regulation (EU) No 453/2010 of 20 May 2010.

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.