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.
1-3 Freeman Court
Jarman Way
Royston
Hertfordshire
SG8 5HW
+44 (0)1763 255550
sds@headlandamenity.com

Contact person Wendy Johnson

1.4. Emergency telephone number

Emergency telephone +44 (0)1763 255550 (09.00 - 17.00 GMT Monday - Friday)

National emergency telephone number 111

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

Hazard pictograms

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

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
Ox. Sol. 2 - H272
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 REACH registration number: 01-2119487297-23-XXXX

Classification
Ox. Liq. 2 - H272
Met. Corr. 1 - H290
Acute Tox. 3 - H331
Skin Corr. 1A - H314
Eye Dam. 1 - H318

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

HEADLAND JETT

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

Personal precautions Avoid contact with skin, eyes and clothing. For personal protection, see Section 8.

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 Stop leak if safe to do so. 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

HEADLAND JETT

Usage precautions	Avoid contact with skin, eyes and clothing. 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 2.6 mg/m³ 1 ppm
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.
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.

HEADLAND JETT

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

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 1,000.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 265.03

HEADLAND JETT

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)	3264
UN No. (IMDG)	3264
UN No. (ICAO)	3264
UN No. (ADN)	3264

14.2. UN proper shipping name

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

HEADLAND JETT

Proper shipping name (ADN)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS MANGANESE DINITRATE, NITRIC ACID)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C1
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
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

IMDG Code segregation group	1. Acids
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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

HEADLAND JETT

SECTION 16: Other information

Revision comments	Supplier company address updated. Emergency contact details updated. Revised transport classification. NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	13/05/2021
Revision	4
Supersedes date	18/05/2016
Hazard statements in full	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H331 Toxic if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.