SAFETY DATA SHEET
PPT114

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

1.1. Product identifier

Product name PPT114

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 Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms

Signal word Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

PPT114

Precautionary statements P102 Keep out of reach of children.
P260 Do not breathe dust.
P280 Wear protective gloves, protective clothing and eye protection.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains MANGANESE SULPHATE, FERROUS SULPHATE MONOHYDRATE, ZINC SULPHATE HEXAHYDRATE, COPPER SULPHATE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

MANGANESE SULPHATE **30-50%**

CAS number: 7785-87-7 EC number: 232-089-9 REACH registration number: 01-2119456624-35-XXXX

Classification
STOT RE 2 - H373
Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC)
Xn; R48/20/21/22. N; R51/53

FERROUS SULPHATE MONOHYDRATE **10-30%**

CAS number: 17375-41-6 EC number: 231-753-5 REACH registration number: 01-2119513203-57-XXXX

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

ZINC SULPHATE HEXAHYDRATE **10-30%**

CAS number: 13986-24-8 EC number: 231-793-3 REACH registration number: 01-2119474684-27-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Acute Tox. 4 - H302
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

PPT114

COPPER SULPHATE		10-30%
CAS number: 7758-98-7	EC number: 231-847-6	
M factor (Acute) = 10	M factor (Chronic) = 1	

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Xn;R22 Xi;R36/38 N;R50/53

FERRIC AMMONIUM CITRATE		1-10%
CAS number: 1185-57-5	EC number: 214-686-6	REACH registration number: 01-2119963920-33-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Xi; R36/38

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 Remove affected person from source of contamination.

Ingestion Rinse mouth. Do not induce vomiting. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. 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 irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Ingestion There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be difficulty swallowing. There may be vomiting.

Skin contact Skin contact may cause redness and irritation.

Eye contact There may be pain and redness. Profuse watering of the eyes. May cause blurred vision and serious eye damage. 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

PPT114

Hazardous combustion products In combustion emits toxic fumes.

5.3. Advice for firefighters

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 Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent further escape of material.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Transfer to a container for disposal.

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. For waste disposal, see 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. Avoid generation and spreading of dust.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented.

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.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

MANGANESE SULPHATE

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m³ respirable dust

FERROUS SULPHATE MONOHYDRATE

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

COPPER SULPHATE

Long-term exposure limit (8-hour TWA): WEL 1 mg/m3
Short-term exposure limit (15-minute): WEL 2 mg/m3

FERRIC AMMONIUM CITRATE

Short-term exposure limit (15-minute): 2 mg/m3
WEL = Workplace Exposure Limit

PPT114

MANGANESE SULPHATE (CAS: 7785-87-7)

DNEL

Workers - Dermal; systemic effects: 0.00414 mg/kg/day
Workers - Inhalation; systemic effects: 0.2 mg/m³
Consumer - Dermal; systemic effects: 0.0021 mg/kg/day
Consumer - Inhalation; systemic effects: 0.043 mg/m³

PNEC

- Fresh water; 0.0128 mg/l
- marine water; 0.0004 mg/l
- Sediment (Freshwater); 0.0114 mg/kg
- Sediment (Marinewater); 0.0014 mg/kg
- Soil; 25.1 mg/kg
- STP; 56 mg/l

FERROUS SULPHATE MONOHYDRATE (CAS: 17375-41-6)

DNEL

Industry - Dermal; Long term systemic effects: 0.5 mg/kg/day
Industry - Dermal; Short term systemic effects: 0.57 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.5 mg/m³
Industry - Inhalation; Long term systemic effects: 2.01 mg/kg/day
Industry - Inhalation; Short term systemic effects: 2.01 mg/m³
General population - Inhalation; Short term systemic effects: 0.5 mg/m³
General population - Dermal; Long term systemic effects: 0.29 mg/kg/day
General population - Dermal; Short term systemic effects: 0.29 mg/kg/day
General population - Oral; Long term systemic effects: 0.29 mg/kg/day
General population - Oral; Short term systemic effects: 0.29 mg/kg/day

PNEC

- Sediment (Freshwater); 49.5 mg/kg
- Sediment (Marinewater); 49.5 mg/kg
- Soil; 55.5 mg/kg

ZINC SULPHATE HEXAHYDRATE (CAS: 13986-24-8)

DNEL

Workers - Inhalation; systemic effects: 1 mg/m³
Workers - Dermal; systemic effects: 8.3 mg/kg
Consumer - Oral; systemic effects: 0.83 mg/kg
Consumer - Dermal; systemic effects: 8.3 mg/kg

PNEC

- Fresh water; 0.0206 mg/l
- marine water; 0.0061 mg/l
- Sediment (Freshwater); 235.6 mg/kg
- Sediment (Marinewater); 113 mg/kg
- Soil; 106.8 mg/kg
- STP; 0.0052 mg/l

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)

PNEC

Fresh water; 0.44 mg/l
marine water; 0.044 mg/l
Sediment (Freshwater); 7.52 mg/kg
Sediment (Marinewater); 0.752 mg/kg
Soil; 29.2 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure there is sufficient ventilation of the area.

PPT114

Eye/face protection	Chemical splash goggles. Ensure eye bath is available.
Hand protection	Wear protective gloves.
Other skin and body protection	Wear protective clothing.
Respiratory protection	Self-contained breathing apparatus must be available in case of emergency.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	Yellow-orange.
Odour	Odourless.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Viscosity	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

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 oxidising agents. Strong acids.

10.6. Hazardous decomposition products

PPT114

Hazardous decomposition products In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,635.07

Inhalation There may be irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Ingestion There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be difficulty swallowing. There may be vomiting.

Skin contact There may be irritation and redness at the site of contact.

Eye contact There may be pain and redness. Profuse watering of the eyes. Pain. May cause blurred vision and serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No potential for bioaccumulation.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Transfer to a suitable container and arrange for collection by a specialised disposal company. Dispose of contents/container in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER SULPHATE, MANGANESE SULPHATE)

PPT114

Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER SULPHATE, MANGANESE SULPHATE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER SULPHATE, MANGANESE SULPHATE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER SULPHATE, MANGANESE SULPHATE)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels

14.4. Packing group

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

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

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

PPT114

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Revised formulation.

Revision date 09/09/2019

Revision 2

Supersedes date 20/09/2018

SDS number 20563

Hazard statements in full H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.