

SAFETY DATA SHEET PPT114

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

1.1. Product identifier

Product number

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

PHP004/5

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 111

number

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 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.

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Precautionary statements 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. P314 Get medical advice/ attention if you feel unwell.

Contains MANGANESE SULPHATE MONOHYDRATE, FERROUS SULPHATE MONOHYDRATE,

ZINC SULPHATE HEXAHYDRATE, COPPER SULPHATE PENTAHYDRATE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

MANGANESE SULPHATE MONOHYDRATE

30-60%

CAS number: 10034-96-5 EC number: 232-089-9 REACH registration number: 01-

2119456624-35-XXXX

Classification

Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Chronic 2 - H411

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: 7733-02-0 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

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COPPER SULPHATE PENTAHYDRATE 10-30%

CAS number: 7758-98-7 EC number: 231-847-6 REACH registration number: 01-

2119520566-40-XXXX

M factor (Chronic) = 10

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 1 - H410

REACTION MASS OF AMMONIUM IRON III CITRATE AND

5-10%

AMMONIUM SULFATE

CAS number: — EC number: 932-833-9 REACH registration number: 01-

2119963920-33-XXXX

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

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.

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

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 upAbsorb 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

Do not eat, drink or smoke when using this product. Promptly remove any clothing that

becomes contaminated. Provide eyewash station. Wash after use and before eating, smoking

and using the toilet. Wash hands thoroughly after handling.

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 MONOHYDRATE

Long-term exposure limit (8-hour TWA): WEL 0.2 mg/m³ as Mn; Long-term exposure limit (8-hour TWA): WEL 0.2 mg/m³ as Mn

FERROUS SULPHATE MONOHYDRATE

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

WEL = Workplace Exposure Limit.

MANGANESE SULPHATE MONOHYDRATE (CAS: 10034-96-5)

DNEL Workers - Inhalation; Long term systemic effects: 0.2 mg/m³

Workers - Dermal; Long term systemic effects: 0.004 mg/kg/day

General population - Inhalation; Long term systemic effects: 0.043 mg/m³ General population - Dermal; Long term systemic effects: 0.002 mg/kg/day

PNEC Fresh water; 0.03 mg/l

marine water; 0.0004 mg/l

Sediment (Freshwater); 0.011 mg/kg Sediment (Marinewater); 0.001 mg/kg

STP; 56 mg/l Soil; 25.1 mg/kg

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: 7733-02-0)

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/kgSediment (Marinewater); 113 mg/kg

Soil; 106.8 mg/kgSTP; 0.0052 mg/l

COPPER SULPHATE PENTAHYDRATE (CAS: 7758-98-7)

DNEL Workers - Inhalation; Long term systemic effects: 1 mg/m³

Workers - Inhalation; Long term local effects: 1 mg/m³

Workers - Dermal; Long term systemic effects: 137 mg/kg/day

PNEC Fresh water; 0.0078 mg/l

marine water; 0.0052 mg/l

STP; 0.23 mg/l

Sediment (Freshwater); 87 mg/kg Sediment (Marinewater); 676 mg/kg

Soil; 65 mg/kg

REACTION MASS OF AMMONIUM IRON III CITRATE AND AMMONIUM SULFATE

DNEL Workers - Inhalation; Long term systemic effects: 25 mg/m³

PNEC Fresh water; 1.35 mg/l

marine water; 0.8 mg/l

STP; 5 mg/l

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

PNEC Fresh water; 0.44 mg/l

marine water; 0.044 mg/l

STP; 1000 mg/l

Sediment (Freshwater); 3.46 mg/kg Sediment (Marinewater); 34.6 mg/kg

Soil; 33.1 mg/kg

8.2. Exposure controls

Appropriate engineering

controls

Ensure there is sufficient ventilation of the area.

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

Hand protection Wear protective gloves.

Other skin and body

Evaporation rate

Flammability (solid, gas)

protection

Wear protective clothing.

No information available.

No information available.

No information available.

No information available.

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.

Hq pH (diluted solution): 3.1 (5%)

Melting point No information available.

Initial boiling point and range

Flash point

No information available.

Vapour pressure

Vapour density No information available.

Relative density No information available.

No information available. **Bulk density**

Solubility(ies) No information available.

No information available. Viscosity

Oxidising properties Does not meet the criteria for classification as oxidising.

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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

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) 1,565.6

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. May cause blurred vision and

serious eye damage. May cause permanent damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

MANGANESE SULPHATE MONOHYDRATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 8.79 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - NOEC, 3 hours: 560 mg/l, Activated sludge

microorganisms

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 65 days: 1.51 mg/l, Salvelinus fontinalis (Brook trout)

life stage

FERROUS SULPHATE MONOHYDRATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 82.3 mg/l, Oncorhynchus mykiss (Rainbow trout)

ZINC SULPHATE HEXAHYDRATE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

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 methodsTransfer 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 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER

(ADR/RID) SULPHATE, MANGANESE SULPHATE)

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

ADN packing group

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 90

(ADR/RID)

Tunnel restriction code (-)

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision comments Product UFI added (not relevant to GB). Supplier company address updated. Emergency

contact details updated. NOTE: Lines within the margin indicate significant changes from the

previous revision.

Revision date 06/11/2020

Revision 3

Supersedes date 09/09/2019

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.

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.