

**MANGANESE 15** 

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Compilation date: 14/10/2011

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Revision No: 2

## Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: MANGANESE 15

Product code: \* UK0009

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: A micronutrient fertiliser for use in agriculture and horticulture.

## 1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre
Deeside
Flintshire
CH5 2DH

United Kingdom **Tel:** +44(0)1244 537370

Fax: +44(0)1244 532097

Email: enquiry@headlandgroup.com

## 1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

### Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification under CHIP: Xn: R48/20/22; N: R51/53

Classification under CLP: \* Aquatic Chronic 2: H411; STOT RE 2: H373

Most important adverse effects: Harmful: danger of serious damage to health by prolonged exposure through inhalation

and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

#### 2.2. Label elements

### Label elements under CLP:

Hazard statements: \* H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Signal words: \* Warning

Hazard pictograms: \* GHS08: Health hazard

GHS09: Environmental

[cont...]

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Precautionary statements: \* P260: Do not breathe spray.

P273: Avoid release to the environment.

P314: Get medical advice/attention if you feel unwell.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous waste disposal company/facility.

Label elements under CHIP:

Hazard symbols: Harmful.

Dangerous for the environment.





Risk phrases: R48/20/22: Harmful: danger of serious damage to health by prolonged exposure

through inhalation and if swallowed.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety phrases: S23: Do not breathe spray.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

# 2.3. Other hazards

**PBT:** This product is not identified as a PBT substance.

# Section 3: Composition/information on ingredients

# 3.2. Mixtures

# **Hazardous ingredients:**

### MANGANESE SULPHATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
232-089-9	7785-87-7	Xn: R48/20/22; N: R51/53	STOT RE 2: H373; Aquatic Chronic 2:	30-50%
			H411	

# Section 4: First aid measures

## 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still

on skin.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water

to drink immediately. Consult a doctor.

[cont...]

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Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a

doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

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

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach

pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: \* Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray

to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

#### Section 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to

prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

# 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for

disposal by an appropriate method. Refer to section 13 of SDS for suitable method of

disposal.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

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## Section 7: Handling and storage

## 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store above 5'C. Keep container tightly closed. The floor of the storage room must be

impermeable to prevent the escape of liquids.

Suitable packaging: \* Must only be kept in original packaging.

### 7.3. Specific end use(s)

Specific end use(s): No data available.

### Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Workplace exposure limits: No data available.

### 8.1. DNEL/PNEC Values

**DNEL / PNEC** No data available.

#### 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be

impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: \* Refer to specific Member State legislation for requirements under Community

environmental legislation.

# Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

State: Liquid Colour: Pink

Odour: Barely perceptible odour

Oxidising: \* Non-oxidising (by EC criteria)

Solubility in water: Soluble

Relative density: approx 1.37 pH: approx 4

### 9.2. Other information

Other information: No data available.

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## Section 10: Stability and reactivity

# 10.1. Reactivity

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

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

### 10.5. Incompatible materials

Materials to avoid: \* Strong bases. Strong acids.

### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

### Section 11: Toxicological information

# 11.1. Information on toxicological effects

### Hazardous ingredients:

#### **MANGANESE SULPHATE**

IVN	RAT	LD50	44100	μg/kg
ORL	MUS	LD50	2330	mg/kg
ORL	RAT	LD50	2150	mg/kg

## Relevant effects for mixture:

Effect	Route	Basis
Repeated dose toxicity	INH ING	Hazardous: calculated

## Symptoms / routes of exposure

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

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach

pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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### **Section 12: Ecological information**

## 12.1. Toxicity

## \* Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	9.18	mg/l
ALGAE	72H ErC50	30.4	mg/l
Daphnia magna	48H LC50	28.4	mg/l

## 12.2. Persistence and degradability

Persistence and degradability: No data available.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

## 12.4. Mobility in soil

Mobility: \* Soluble in water.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

### 12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

## Section 13: Disposal considerations

## 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

Recovery operations: Not applicable.

Disposal of packaging: \* Triple rinse, and puncture so packaging cannot be reused, and dispose of as normal

industrial waste. Treat the cleaning water following the above method for waste product.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

### **Section 14: Transport information**

## 14.1. UN number

UN number: UN3082

## 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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## 14.3. Transport hazard class(es)

Transport class: 9

### 14.4. Packing group

Packing group: |||

#### 14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E
Transport category: 3

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk:** The product is not transported in bulk tankers.

### Section 15: Regulatory information

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

Specific regulations: Not applicable.

# 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

### **Section 16: Other information**

#### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H373: May cause damage to organs <or state all organs affected, if known> through

prolonged or repeated exposure <state route of exposure if it is conclusively proven that

no other routes of exposure cause the hazard>.

H411: Toxic to aquatic life with long lasting effects.

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure

through inhalation and if swallowed.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.