

ROOT 66

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Compilation date: 09/07/2013

Revision No: 1

	Revision No: 7
Section 1: Identification of the	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name:	ROOT 66
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	f 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 nu	umber
Emergency tel:	+44(0)1244 537370
	(office hours only)
Section 2: Hazards identifica	ation
2.1. Classification of the sub	stance or mixture
Classification under CHIP:	
	Acute Tox. 4: H302; Skin Corr. 1C: H314; STOT RE 2: H373
	Causes burns. Harmful: danger of serious damage to health by prolonged exposure
	through inhalation.
2.2. Label elements	
Label elements under CLP:	
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.
Signal words:	
Hazard pictograms:	
	GHS07: Exclamation mark
	GHS08: Health hazard

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Precautionary statements: P260: Do not breathe spray.

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+351+338: 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.

#### Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases:	R34: Causes burns.
	R48/20: Harmful: danger of serious damage to health by prolonged exposure through
	inhalation.
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek
	medical advice.
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
	S45: In case of accident or if you feel unwell, seek medical advice immediately (show
	the label where possible).

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 DINITRATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
233-828-8	10377-66-9	O: R8; Xn: R22; C: R34; Xn: R48/20	Ox. Sol. 2: H272; Acute Tox. 4: H302; Skin Corr. 1C: H314; Eye Dam. 1: H318; STOT RE 2: H373; Aquatic Chronic 3: H412; -: EUH071	10-30%

## 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.

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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:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
  - Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
  - Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

- Eye contact: Corneal burns may occur. May cause permanent damage.
  - **Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
  - **Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
- 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: Eye bathing equipment should be available on the premises.

## 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: Corrosive. 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:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective

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clothing - see section 8 of SDS. 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:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

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

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 in cool, well ventilated area. Keep container tightly closed.

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.	
Respiratory protection:	ion: Respiratory protection not required.	
Hand protection:	Impermeable gloves.	
Eye protection:	Tightly fitting safety goggles. 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

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9.1. Information on basic physical and chemical properties			
State:	Liquid		
Colour:	Red-brown		
Odour:	Barely perceptible odour		
Solubility in water:	Soluble		
Relative density:	1.36-1.38	<b>pH:</b> 3 - 4	
9.2. Other information			
Other information:	No data available.		
Section 10: Stability and rea	ctivity		
10.1. Reactivity			
Reactivity:	Stable under recommended trans	port or storage conditions.	
10.2. Chemical stability			
Chemical stability:	Stable under normal conditions.		
10.3. Possibility of hazardous	s reactions		
Hazardous reactions:	Hazardous reactions will not occu	r under normal transport or storage conditions.	
	Decomposition may occur on exp	osure to conditions or materials listed below.	
10.4. Conditions to avoid			
Conditions to avoid:	Heat.		
10.5. Incompatible materials			
Materials to avoid:	Strong reducing agents. Strong ba	ises.	
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 DINITRATE

ORAL RAT LD50	>300 mg/kg	
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## Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

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Repeated dose toxicity		INH	Hazardous: c	alculated	
· · · ·					
Symptoms / routes of exposit	ure				
Skin contact:	Blistering	may occur. Progressi	e ulceration will oc	cur if treatment is not immediate.	
Eye contact:	Corneal b	ourns may occur. May	ause permanent d	amage.	
Ingestion:	Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be				
	bleeding f	from the mouth or nos	9.		
Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may			ensation in the throat. Exposure may		
	cause cou	ughing or wheezing.			
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.				
Section 12: Ecological inforr	nation				
12.1. Toxicity					
Ecotoxicity values:	No doto o	wailabla			
-					
12.2. Persistence and degrac	adility				
Persistence and degradability:	No data a	vailable.			
12.3. Bioaccumulative potent	tial				
Bioaccumulative potential: No data available.					
12.4. Mobility in soil					
Mobility:	Soluble in	water.			
12.5. Results of PBT and vPv	'B assessr	nent			
PBT identification:	This prod	uct is not identified as	a PBT substance.		
12.6. Other adverse effects					
Other adverse effects:	No data a	vailable.			
Section 13: Disposal conside	erations				
13.1. Waste treatment metho	ds				
Disposal operations:	Transfer t	o a suitable container	and arrange for col	lection by specialised disposal	
- · ·	company.		C		
NB:	The user's	s attention is drawn to	the possible exister	nce of regional or national	
		ns regarding disposal.	-	-	
Section 14: Transport inform	nation				

14.1. UN number

UN number: UN1760

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, N.O.S.

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#### (MANGANESE DINITRATE)

14.3. Transport hazard class(es)

Transport class: 8

#### 14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: No

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:	EUH071: Corrosive to the respiratory tract.
	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 <or affected,="" all="" if="" known="" organs="" state=""> through</or>
	prolonged or repeated exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven="" route="" th="" that<=""></state>
	no other routes of exposure cause the hazard>.
	H412: Harmful to aquatic life with long lasting effects.
	R8: Contact with combustible material may cause fire.
	R22: Harmful if swallowed.

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R34: Causes burns.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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.