

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND COMPANY

### 1.1 Name of Preparation:

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### 1.1 Intended Use:

As an agricultural/horticultural/amenity fertiliser

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### 1.1 Supplier Details:

De Sangosse Ltd, Swaffham Bulbeck, Cambridge CB5 OLU,UK  
Telephone number: 01223 811215 (outside UK: + 44 1223 811215)  
Fax number: 01223 810020 (outside UK: + 44 1223 810020)  
Emergency Telephone Number: Office hours 01223 811215,  
After Office hours: 01638 577581 or 01485 544230

## 2. INFORMATION ON INGREDIENTS

**THIS PREPARATION IS CLASSIFIED AS DANGEROUS UNDER DIRECTIVE 2001/59/EC**

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### 2.1 Composition:

Product code L168A-D

Hazardous Components –

Manganese Nitrate (as a prepared solution)

CAS 10377-66-9 C; O; R8; R34: R41; S17; S36/37/38

Zinc Nitrate

CAS 7779-88-6 Xn; N; R22; R50/53

## 3. HAZARDS IDENTIFICATION

### 3.1 Classification of Preparation:



OXIDISING CORROSIVE



DANGEROUS FOR THE ENVIRONMENT

### 3.2 Primary Hazards:

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE

CAUSES BURNS

TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

#### 4. FIRST AID MEASURES

##### **4.1 Any special measures:**

##### **4.2 Inhalation:**

May cause irritation of the respiratory tract. Remove from source of exposure to fresh air; may cause irritation; seek medical attention.

##### **4.3 Skin & eye exposure:**

May cause burns. Rinse immediately with plenty of water. Seek medical advice. Eyes: irrigate with copious amounts of clean water for at least 10 minutes. Seek medical advice

##### **4.4 Ingestion:**

May cause irritation & burns to the gastro-intestinal tract. Do not induce vomiting. Seek medical advice.

#### 5. FIRE FIGHTING MEASURES

##### **5.1 Suitable extinguishing media:**

Not flammable

##### **5.2 Unsuitable extinguishing media:**

As appropriate for surrounding fire

##### **5.3 Special hazards, combustion or by products:**

Combustion gases may cause irritation.

##### **5.4 Protective clothing for fire fighting:**

Suitable protective clothing and breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **6.1 Personal precautions:**

Prevent contact with skin or eyes

##### **6.2 Environmental precautions:**

Do not wash excessive spillages into water courses. If this product enters water course or sewer (including via contaminated soil & vegetation) contact local agency and/or police immediately. Do not burn.

##### **6.3 Clean & disposal methods:**

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

#### 7. HANDLING AND STORAGE

##### **7.1 Practical precautions & engineering controls for safe handling:**

Open container with care to avoid splashes.

##### **7.2 Conditions and quantity limits for safe storage:**

Store in a cool, dry atmosphere in original, labelled containers.

Do not store in metal or alloy packaging. Store frost free conditions ideally above 7°C. Refer to manufacturer for maximum safe stacking height.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **8.1 Exposure limit values:**

Not determined for product..

Under EH40, OEL as follows:

Manganese compounds (as Mn) = 5mg/m<sup>3</sup> (8 hour TWA)

Manganese fume (as Mn) = 1.0mg/m<sup>3</sup> (8 hour TWA)

### **8.2 Occupational exposure controls:**

Ensure suitable engineering controls for measuring and decanting of product prior to mixing.

### **8.3 Personal Protective Equipment:**

Primary Hazard considered as handling of concentrate.

Body: Wear suitable protective suit, with splash protective for acid liquids.

Gloves: BS EN374 Chemical protection - physical barrier protection only;

Eye Protection: goggles/face shield to BS EN166.

Respirator: BS approved protection device with P3 filter

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.01 Appearance:** Pale pink liquid

**9.02 Odour:** not specified

**9.03 pH:** 0.0 – 2.0

**9.04 Boiling point/range:** not specified

**9.05 Flash Point/Flammability:** not classified as flammable

**9.06 Explosive properties:** not classified as explosive

**9.07 Oxidising properties:** classified as Oxidising by calculation method

**9.08 Vapour pressure:** not specified

**9.09 Relative Density:** 1.36 – 1.40

**9.10 Solubility:** not specified

**9.11 Partition coefficient:** not specified

**9.12 Viscosity:** not specified

**9.13 Vapour density:** not specified

**9.14 Evaporation rate:** not specified

## 10. STABILITY AND REACTIVITY

### **10.1 Materials to avoid:**

Metals;

### **10.2 Conditions to avoid:**

Temperatures below 7°C.

### **10.3 Hazardous decomposition products:**

Irritant fumes

## 11. TOXICOLOGICAL INFORMATION

The Preparation has not been assessed at all for this end-point, so its hazardous property in this regard is not known.

## 12. ECOLOGICAL INFORMATION

**Classified as harmful to the environment.**

### **12.1 Ecotoxicity:**

No specific data available

### **12.2 Mobility:**

No specific data available

### **12.3 Persistence & degradability:**

No specific data available

### **12.4 Bioaccumulative potential:**

No specific data available

## 13. DISPOSAL CONSIDERATIONS

### **13.1 Disposal of used preparation:**

Dispose in accordance with local regulations via specialised waste contractor.

### **13.2 Disposal of packaging:**

Use specialist waste contractor in accordance with local regulations. Do not remove labels from containers.

#### 14. TRANSPORT INFORMATION

##### **14.1 Specific Transport requirements**

###### **ROAD**

Proper Shipping Name: Oxidising liquid, Corrosive, n.o.s. (Manganese Nitrate)  
Classification; 5.1 (8)  
UN Number; UN3098  
Packing Group; III  
Transport Category; 3

###### **SEA**

Proper Shipping Name: Oxidising liquid, Corrosive, n.o.s. (Manganese Nitrate)  
Classification; 5.1 (8)  
UN Number; UN3098  
Packing Group; III  
Marine Pollutant: No

###### **AIR**

Proper Shipping Name: Oxidising liquid, Corrosive, n.o.s. (Manganese Nitrate)  
Classification; 5.1 (8)  
UN Number; UN3098  
Packing Group; III

#### 15. REGULATORY INFORMATION

This preparation is classified and labelled in accordance with both regulation 2001/59/EC and The Fertiliser Regulations 1991.

**S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice**

**S36/7/9: Wear suitable protective clothing, gloves & eye/face protection**

**S57: Use appropriate containment to avoid environmental contamination.**

#### 16. OTHER INFORMATION

**R8: Contact with combustible material may cause fire**

**R34: Causes burns**

**R51-53: Toxic to aquatic organisms & may cause long term adverse effects in the aquatic environment.**

Compiled using data submitted for raw materials and practical experience.

This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Directive 2001/59/EC.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.

19 JULY 2005