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# material safety data sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Maxi Mang™  
**Synonyms:** -  
**Product Use-Type:** Liquid Manganese Fertilizer  
**Company Name:** Agrichem  
2-4 Chetwynd St (PO Box 4037)  
Loganholme QLD 4129 Australia  
**Date of Issue:** 17 Sep. 2009

## 2. HAZARDS IDENTIFICATION

### Emergency Overview:

Appearance and Odour: Biege to brown suspension.

### Warning Statements:

Keep out of reach of children.

CAUTION. Causes mild eye irritation. May be harmful if inhaled, swallowed or absorbed through the skin.

Avoid breathing vapor of spray mist.

Avoid contact with eyes, skin or clothing.

### Potential Health Effects:

Likely Routes of Exposure: Eye and skin contact.

Eye Contact: A mild irritant to eyes.

Skin Contact: Mildly irritating to skin.

Ingestion: May cause diarrhoea, nausea, vomiting and cramps.

Inhalation: Nil.

## 3. INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.
Manganese Carbonate	598-62-9
Urea	57-13-6

## 4. FIRST AID MEASURES

**If in Eyes:** Rinse with plenty of water for 15 mins. See a Doctor

**If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Seek medical advice if irritation persists.

**If Inhaled:** Not applicable

**If Swallowed:** Seek medical advice. DO NOT Induce vomiting. Drink plenty of water/milk if possible.



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## 5. FIRE FIGHTING MEASURES

This is not a flammable material.

**Flash Point:** Non-combustible  
**Autoignition Temperature:** Not determined  
**Flammability Limits:** Non-combustible

**Special Fire Fighting Procedures:** Firefighters should wear approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Suitable for most extinguishing media.

**Hazardous Decomposition Materials (Under Fire Conditions):** This is not a flammable product. In smoke or fumes wear self contained breathing apparatus. Advise fire brigade of any hazard. Suitable for most extinguishing media.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Methods for Containment:** Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

**Methods for Cleanup and Disposal:** Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13

**Other Information:** Large spills may be reportable to the state and/or local regulatory agencies.

## 7. HANDLING AND STORAGE

### Handling:

Avoid breathing vapor or spray mist. Avoid contact with eyes, skin or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Storage:

This product should be stored in its original container in a cool, dry place out of reach of children and out of direct sunlight. Store away from combustible materials, herbicides and fungicides. Do not use or store near open flame. Do not contaminate water, food or feed by storage or disposal.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Personal Protective Equipment:**

**Eye/Face Protection:** To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

**Respirator Protection:** Not applicable.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Black Liquid.
<b>Boiling Point:</b>	>100° C
<b>Solubility in Water:</b>	Miscible but insoluble
<b>Specific Gravity:</b>	1.83-1.86
<b>Evaporation Rate:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>pH:</b>	8.0 – 9.5

**Note:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** This material is stable under normal handling and storage conditions.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame.

**Avoid contact with:**

1. Strong bases – Will release ammonia
2. Strong oxidising agents – may decompose

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:**

Data from laboratory studies on this product are summarized below:

**Oral:** Not determined

**Dermal:** Not determined

**Inhalation:** Not determined

**Eye Irritation:** Irritation

**Skin Irritation:** May cause skin irritation

**Skin Sensitization:** Not determined



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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

**Soil Absorption / Mobility:** Not determined.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**

For any spillage wash with plenty of water or absorb with earth or other inert material and dispose as per local regulations.

### 14. TRANSPORTATION INFORMATION

This is a non dangerous good. UN not classified

### 15. REGULATORY INFORMATION

On the data available this is not a dangerous product. The usual precautions should be observed when using fertilizer products

### 16. OTHER INFORMATION

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