

# SAFETY DATA SHEET



Fertiliser + Less Than 10% Manganese Sulfate + Flutriafol

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name FERTILISER + LESS THAN 10% MANGANESE SULFATE + FLUTRIAFOL

Synonyms FERTILISER + MANGANESE + FUNGICIDE

1.2 Uses and uses advised against
Uses FERTILISER

1.3 Details of the supplier of the product

Supplier name CSBP LIMITED

Address Kwinana Beach Road, Kwinana, WA, 6167, AUSTRALIA

**Telephone** (08) 9411 8777 **Fax** (08) 9411 8425

Website http://www.csbp.com.au

1.4 Emergency telephone numbers

**Emergency** 1800 09 3333 (Australia); +61 8 9411 8444

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classifications Aquatic Toxicity (Chronic): Category 3

## 2.2 Label elements

Signal word

None allocated.

**Pictograms** 

None allocated.

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

**Prevention statements** 

P273 Avoid release to the environment.

Response statements

None allocated.

Storage statements

None allocated.

**Disposal statements** 

P501 Dispose of contents/container in accordance with relevant regulations.

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2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

ChemAlert.

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#### 3.1 Substances / Mixtures

| Ingredient                     | CAS Number | EC Number | Content |
|--------------------------------|------------|-----------|---------|
| CALCIUM PHOSPHATE, MONOBASIC   | 7758-23-8  | 231-837-1 | <100%   |
| MONOAMMONIUM PHOSPHATE         | 7722-76-1  | 231-764-5 | <100%   |
| AMMONIUM SULPHATE              | 7783-20-2  | 231-984-1 | <90%    |
| POTASSIUM CHLORIDE             | 7447-40-7  | 231-211-8 | <30%    |
| POTASSIUM SULPHATE             | 7778-80-5  | 231-915-5 | <30%    |
| MANGANESE SULPHATE MONOHYDRATE | 10034-96-5 | 600-072-9 | <10%    |
| COPPER (II) OXIDE              | 1317-38-0  | 215-269-1 | <2%     |
| ZINC OXIDE                     | 1314-13-2  | 215-222-5 | <2%     |
| FLUTRIAFOL                     | 76674-21-0 | 616-367-0 | <0.5%   |
| MOLYBDENUM TRIOXIDE            | 1313-27-5  | 215-204-7 | <0.1%   |
| AMMONIUM PHOSPHATE             | 7783-28-0  | 231-987-8 | <100%   |
| CALCIUM SULPHATE DIHYDRATE     | 10101-41-4 | 600-148-1 | <60%    |

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

First aid facilities None allocated.

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

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

# 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (phosphorus/ sulphur oxides) when heated to decomposition. May evolve ammonia and nitrogen oxides when heated to decomposition.

#### 5.3 Advice for firefighters

No fire or explosion hazard exists. Toxic gases may be evolved in a fire situation.

### 5.4 Hazchem code

None allocated.

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Ventilate area where possible.

# 6.2 Environmental precautions

Prevent product from entering drains and waterways.

# 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.



#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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

Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Do not allow to come in contact with water, either from rain, condensation or the surface on which stored. Bagged fertilisers should be stored under cover and out of direct sunlight (which degrades woven polypropylene packs). If stored in the open, do so for short periods only, and cover with a tarpaulin. If stacking is necessary, bulk bags should be stored in a stable manner, preferably in a pyramidal style. Bulk bags should not be stacked more than two high for bags containing 1 000 kg or more, or more than four high for bags containing up to 500 kg. The Pallet Capacity Rating (design weight) should not be exceeded on the bottom tier for other packs. High stacking should be avoided as pressure promotes caking. Store away from farm chemicals, e.g. insecticides, fungicides and herbicides.

### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### **Exposure standards**

| Ingredient                          | Reference  | TWA |       | STEL |       |
|-------------------------------------|------------|-----|-------|------|-------|
|                                     | Kelelelice | ppm | mg/m³ | ppm  | mg/m³ |
| Copper (fume)                       | SWA (AUS)  |     | 0.2   |      |       |
| Copper, dusts & mists (as Cu)       | SWA (AUS)  |     | 1     |      |       |
| Manganese, dust & compounds (as Mn) | SWA (AUS)  |     | 1     |      |       |
| Manganese, fume (as Mn)             | SWA (AUS)  |     | 1     |      | 3     |
| Zinc oxide (dust)                   | SWA (AUS)  |     | 10    |      |       |
| Zinc oxide (fume)                   | SWA (AUS)  |     | 5     |      | 10    |

### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Use appropriate safe working procedures to reduce the

potential for an inhalation hazard. Maintain dust levels below the recommended exposure standard.

**PPE** 

Eye / Face Wear safety glasses.

**Hands** Wear PVC or neoprene gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Wear a dust mask where exposure to dust is light. Where an inhalation risk exists, wear a Class P1

(Particulate) respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance GREY BROWN GRANULES

Odour ODOURLESS
Flammability NON FLAMMABLE



### 9.1 Information on basic physical and chemical properties

NOT RELEVANT Flash point **Boiling point NOT RELEVANT NOT AVAILABLE Melting point Evaporation rate** NOT RELEVANT рΗ 3 to 6.5 (Solution) **NOT AVAILABLE** Vapour density Specific gravity NOT AVAILABLE Solubility (water) SOLUBLE Vapour pressure **NOT RELEVANT** Upper explosion limit **NOT RELEVANT** Lower explosion limit **NOT RELEVANT** Partition coefficient **NOT AVAILABLE Autoignition temperature NOT AVAILABLE** NOT AVAILABLE Decomposition temperature **NOT AVAILABLE Viscosity NOT AVAILABLE Explosive properties** Oxidising properties **NOT AVAILABLE Odour threshold NOT AVAILABLE** 

# 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

No information provided.

### 10.6 Hazardous decomposition products

May evolve toxic gases (phosphorus/ sulphur oxides) when heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity This product is expected to be of low toxicity. Based on available data, the classification criteria are not met.

#### Information available for the ingredients:

| Ingredient                   | Oral Toxicity (LD50)  | Dermal Toxicity (LD50) | Inhalation Toxicity<br>(LC50) |
|------------------------------|-----------------------|------------------------|-------------------------------|
| CALCIUM PHOSPHATE, MONOBASIC | 15250 mg/kg (mouse)   |                        |                               |
| AMMONIUM SULPHATE            | 2840 mg/kg (rat)      |                        |                               |
| POTASSIUM CHLORIDE           | 2600 mg/kg (rat)      | > 2000 mg/kg (rabbit)  |                               |
| POTASSIUM SULPHATE           | 6600 mg/kg (rat)      |                        |                               |
| COPPER (II) OXIDE            | > 2500 mg/kg (rat)    | > 2000 mg/kg (rat)     |                               |
| ZINC OXIDE                   | 7950 mg/kg (mouse)    |                        | 2500 mg/m³ (mouse)            |
| FLUTRIAFOL                   | 1140-1480 mg/kg (rat) | > 2000 mg/kg (rat)     | 1.79 g/L/4hr (rat)            |
| MOLYBDENUM TRIOXIDE          | 2689 mg/kg (rat)      | > 2000 mg/kg (rat)     | > 5.84 mg/L (rat)             |
| CALCIUM SULPHATE DIHYDRATE   | 3000 mg/kg (rat)      |                        |                               |

**Skin** Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation.

Eye Not classified as an eye irritant. Contact may result in mild irritation, lacrimation and redness.



**Sensitisation** Not classified as causing skin or respiratory sensitisation.

MutagenicityNot classified as a mutagen.CarcinogenicityNot classified as a carcinogen.ReproductiveNot classified as a reproductive toxin.

STOT - single Not classified as a reproductive toxin.

Not classified as causing organ damage from single exposure. However, over exposure may result in

**exposure** irritation of the nose and throat, with coughing.

STOT - repeated Repeated exposure to manganese dust may result in manganese poisoning (manganism), a disabling, and usually progressive disorder of the central nervous system with symptoms resembling Parkinsonism.

However, due to the small concentration present, adverse effects are not expected.

**Aspiration** Not classified as causing aspiration.

# 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

No information provided.

### 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

No information provided.

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal Collect without generating dust. Place in clean, sealed containers and dispose of to an approved landfill site.

Contact the manufacturer/supplier for additional information (if required).

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

|                              | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------|----------------------|----------------------------|-----------------------------|
| 14.1 UN Number               | None allocated.      | None allocated.            | None allocated.             |
| 14.2 Proper<br>Shipping Name | None allocated.      | None allocated.            | None allocated.             |
| 14.3 Transport hazard class  | None allocated.      | None allocated.            | None allocated.             |
| 14.4 Packing Group           | None allocated.      | None allocated.            | None allocated.             |

# 14.5 Environmental hazards

No information provided.

### 14.6 Special precautions for user

**Hazchem code** None allocated.

# 15. REGULATORY INFORMATION

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

Poison schedule

A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).



Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

Hazard codes N Dangerous for the environment

Risk phrases R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety phrases S25 Avoid contact with eyes.

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

Inventory listings AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

## 16. OTHER INFORMATION

#### Additional information

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average



#### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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