



ABN: 81 008 668 371

# MATERIAL SAFETY DATA SHEET

## MacroPro Range

### Section 1 – Identification of the Material and Supplier

#### Product Name

MacroPro Extra, MacroPro Plus, MacroPro Zinc, MacroPro Copper, MacroPro Boost and MacroPro Trace

#### Other names

CSBP Product Codes: MacroPro Extra [P51], MacroPro Plus [Q11], MacroPro Zinc [Q01], MacroPro Copper [W01], MacroPro Boost [W11] and MacroPro Trace [AL1]

#### Recommended use

Fertiliser

#### Company name

CSBP Limited

#### Address

Kwinana Beach Road, KWINANA

#### State

Western Australia

#### Postcode

6167

#### Telephone number

(08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas)

#### Emergency telephone number

1800 093 333 (Australia), +61 8 9411 8444

### Section 2 – Hazard Identification

Hazard Classification, including a statement of overall hazardous nature

#### **HAZARDOUS SUBSTANCE.**

The MacroPro Range is not classified as hazardous according to Safe Work Australia criteria.

#### **DANGEROUS GOODS.**

The MacroPro Range is not classified as a dangerous good according to the ADG Code.

### Section 3 – Composition/Information on Ingredients

#### Chemical identity of ingredients

Ammonium sulfate

Monoammonium phosphate

Potassium sulfate

Copper oxide

Zinc oxide

Coating agent

#### Proportion of ingredients

15 to 25%

40 to 70%

15 to 30%

Less than 0.1%

Less than 0.3%

Less than 1%

#### CAS Number for ingredients

7783-20-2

7722-76-1

7778-80-5

1317-38-0

1314-13-2

### Section 4 – First Aid Measures

#### First Aid Facilities

Whenever fertilisers are in regular use ensure drinking water and eyewash facilities are available.

#### **FIRST AID PROCEDURES FOR DEALING WITH THIS PRODUCT AND EXPOSURE TO IT**

##### **1. Swallowed**

If person is conscious, rinse mouth thoroughly with water immediately, and give water or milk to drink. DO NOT induce vomiting. Seek medical attention, if more than a small quantity has been swallowed, or there is pain or difficulty with swallowing.

##### **2. Eyes**

Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.



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### Continuation of Section 4 – First Aid Measures

#### 3. Skin

Gently flush affected areas with water. Seek medical attention if irritation develops. Remove all contaminated clothing and laundry before re-use.

#### 4. Inhalation

If over exposure occurs remove affected person to a well ventilated area. Keep warm and at rest. In emergency situations, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest commence cardio-pulmonary resuscitation immediately. Seek urgent medical attention.

#### ADVICE TO DOCTOR.

Treat symptomatically.

### Section 5 – Fire Fighting Measures

#### Product flammability

Non flammable and does not support combustion.

#### Suitable extinguishing media

Non flammable and does not support combustion.

#### Hazard from combustion products

If heated to the point of decomposition (>190°C), it may release oxides of phosphorus, oxides of nitrogen and ammonia.

#### Hazchem Code

None allocated.

### Section 6 – Accidental Release Measures

#### Methods and Materials for containment and clean up

Any spillage should be cleaned up promptly and swept up. Prevent run-off into drains and waterways.

### Section 7 – Handling and Storage

#### Precautions for safe handling

Keep away from alkalis, hypochlorites, oxidising agents and strong acids when transporting.

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

Store in a cool, clean, dry and well ventilated area. Avoid contact with moisture, as it will cause product-handling problems.

Store away from alkalis alkalis, hypochlorites, oxidising agents and strong acids.

### Section 8 – Exposure Controls/Personal Protection

#### National exposure standards

ACGIH recommended value for inhalable particulates is 10 mg/m<sup>3</sup> (TLV/TWA).

	ES-TWA (mg/m <sup>3</sup> )	ES-STEL (mg/m <sup>3</sup> )	ES-Peak (mg/m <sup>3</sup> )
Copper, dust & mists (as Cu)	1.0		
Zinc Oxide (dust)	10.0		

#### Engineering controls

Use in well ventilated areas. Avoid high dust concentration.



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### Continuation of Section 8 – Exposure Controls/Personal Protection

#### Personal protective equipment

Wear rubber or PVC gloves to prevent skin contact. Where dust is a problem use a P2 type canister Respirator. Wear long sleeves and long trousers to prevent contact. Wear chemical safety glasses to prevent eye contact.

### Section 9 – Physical and Chemical Properties

#### Appearance (colour, physical form, shape)

Light brown granules.

#### Odour

No significant odour.

#### pH of 10% solution

5.0 – 6.0.

#### Vapour pressure

Does not exert significant vapour pressure.

#### Vapour density

Not available.

#### Boiling point/range

Not available.

#### Freezing/melting point

Not available.

#### Evaporation rate

Not available.

#### Solubility

Soluble in water, not soluble in alcohol or acetone.

#### Bulk density

1.05 t/m<sup>3</sup>.

#### % Volatiles

Not available.

#### Flammability

Not Flammable.

#### Flash point and method of detecting flash point

Not relevant.

#### Upper and lower flammable (explosive) limits in air

Not relevant.

#### Ignition temperature

Not available.

### Section 10 – Stability and Reactivity

#### Reactivity

Reacts with alkalis, sodium hypochlorites, oxidising agents and strong acids.  
Mildly corrosive to aluminum, zinc, copper, iron and mild steel.

#### Decomposition products

Contact with alkali may release ammonia gas. Contact with chlorinating agents, such as calcium hypochlorite, or sodium hypochlorite, can form explosive nitrogen trichloride. Contact with hot nitric acid may produce toxic nitrosyl chloride



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### Section 11 – Toxicological Information

#### HEALTH EFFECTS

Low toxicity. Use safe work practices to avoid eye or skin contact and dust inhalation.

There is no known effect from chronic exposure to the MacroPro range of Fertilisers.

#### Inhalation:

High dust concentration of air-borne material may cause irritation to the nose and upper respiratory tract; symptoms may include coughing and sore throat.

#### Skin:

Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin absorption have been recorded.

#### Eye:

May cause irritation, redness and pain following contact.

#### Swallowed:

Presents little toxicity, unless large amounts are ingested. Large amounts give rise to gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhea.

#### TOXICITY DATA

Monoammonium phosphate (7722-76-1)

LD50 (Ingestion) > 2,000 mg/kg (rat)

LD50 (Dermal) > 5,000 mg/kg (rat)

Ammonium sulfate (7783-20-2)

LD50 (Intraperitoneal): 610 mg/kg (mouse)

TDL0 (Ingestion): 1500 mg/kg (man - gastrointestinal effects)

LD50 (Ingestion): 640 mg/kg (mouse)

LDL0 (Ingestion): 3500 mg/kg (domestic animal)

Potassium sulfate (7778-80-5)

LDL0 (Subcutaneous): 3000 mg/kg (guinea pig)

TDL0 (Ingestion): 750 mg/kg (woman)

LD50 (Ingestion): 6600 mg/kg (rat)

LDL0 (Ingestion): 750 mg/kg (woman)

Zinc oxide (1314-13-2)

TCL0 (Inhalation): 600 mg/m<sup>3</sup> (human)

LD50 (Intraperitoneal): 240 mg/kg (rat)

LC50 (Inhalation): 2500 mg/m<sup>3</sup> (mouse)

LD50 (Ingestion): 7950 mg/kg (mouse)

LDL0 (Ingestion): 500 mg/kg (human)

### Section 12 – Ecological Information

#### Environment

It is not anticipated to cause any adverse effects to plants or animals.

### Section 13 – Disposal Considerations

#### Disposal methods and containers

Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.

Clean up personnel should vacuum or wet sweep to avoid dust dispersal.

Contact the manufacturer if additional information is required.

#### Legislation

Dispose of in accordance with relevant local legislation.



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### Section 14 – Transport Information

**UN Number**

None allocated.

**UN Proper shipping name**

None allocated.

**Class and subsidiary risk**

None allocated.

**Packing group**

None allocated.

**EPG**

None allocated.

**Hazchem code**

None allocated.

### Section 15 – Regulatory Information

**Australian regulatory information**

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

### Section 16 – Other Information

**Key / legend to abbreviations and acronyms used in the MSDS**

NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
ACGIH	American Conference of Government Industrial Hygienists
ES-TWA	Exposure Standard – Time weighted average
ES-STEL	Exposure Standard – Short term exposure level
ES-Peak	Exposure Standard – Peak level
LD Lo	The lowest dose in an animal study in which lethality occurred
LD50	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
TC Lo	Toxic concentration low. It is the lowest concentration of a substance in air to which humans (or animals) have been exposed for any given period of time that has produced any toxic effect or produced a tumorigenic or reproductive effect on one or more members of the group of subjects
t/m <sup>3</sup>	Tonnes per cubic metre
mg/m <sup>3</sup>	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline



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### Important Notes

1. To the best of our knowledge this document complies with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)].
2. This material safety data sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this material safety data sheet and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.
3. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Safety and Emergency Services Department, CSBP Limited on (08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas).
4. Our responsibility for products sold, is subject to our terms and conditions, a copy of which is sent to our customers, and is also available on request.
5. CSBP reserves the right to make change to material safety data sheets without notice.