

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: June 2024  
Version No: 2

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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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Product Name: Copper Sulphate 20% w/v  
Product Code: 1612  
Other Names: Nil  
Uses: Analytical Reagent

Supplier: Australian Chemical Reagents  
38-50 Bedford Street Gillman SA 5013

Contacts: Telephone: 61 08 84402000  
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Emergency Phone: CHEMCALL 1800 127 406 - Australia +64-4-917-9888 - International

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**2. HAZARDS INFORMATION**

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**GHS Classification**

Hazardous to the Aquatic Environment (Acute) - Category 1  
Hazardous to the Aquatic Environment (Chronic) - Category 1  
Eye Damage/Irritation: Category 1  
Acute Toxicity - Oral: Category 4

**Signal Word(s)**  
**Pictogram(s)**

DANGER

**Hazard Statement(s)**

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s)**  
**Preventative**

P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

|                 |                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response</b> | P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>P330 Rinse mouth.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 immediately call a POISON CENTRE or doctor/physician.<br>P501 Collect spillage. |
| <b>Storage</b>  |                                                                                                                                                                                                                                                                                                                                                      |
| <b>Disposal</b> | P501 Dispose of contents/container to an approved waste disposal plant.                                                                                                                                                                                                                                                                              |

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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#### **Ingredients :**

| <b>Chemical Entity</b>       | <b>CAS No</b> | <b>Proportion</b> |
|------------------------------|---------------|-------------------|
| Copper Sulphate pentahydrate | [7758-99-8]   | 20%               |
| Water                        | [7732-18-5]   | to 100%           |

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### 4. FIRST AID MEASURES

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Safety showers and eye wash facilities should be provided.

#### **Swallowed :**

If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

#### **Eye :**

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

#### **Skin :**

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

#### **Inhaled :**

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

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### 5. FIRE FIGHTING MEASURES

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#### **Suitable Extinguishing Media:**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### **Hazards From Combustion Products:**

Decomposition products include copper oxides.

#### **Precautions For Fire Fighters and Special Protective Equipment:**

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

**Hazchem Code:** •3Z

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### 6. ACCIDENTAL RELEASE MEASURES

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#### **Emergency procedures:**

Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

#### **Methods and materials for containment and clean up:**

Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Do not pipette by mouth.

### Conditions for Safe Storage:

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### National Exposure Standards:

Safe Work Australia – Copper dusts and mists (as Cu) TWA 1mg/m<sup>3</sup>

**Biological Limit Values:** No data available.

### Engineering Controls:

Not usually required with normal use.

### Personal Protective Equipment (PPE):

The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                     |                   |
|-------------------------------------|-------------------|
| Appearance :                        | Clear blue liquid |
| Odour:                              | Nil               |
| pH:                                 | 7                 |
| Boiling Point (°C) :                | 100               |
| Freezing/melting Point:             | Not applicable    |
| Vapour Pressure (mm of Hg @ 25°C) : | 25                |
| Vapour Density:                     | Not applicable    |
| Specific Gravity :                  | 1                 |
| Flash Point (°C) :                  | Not flammable     |
| Flammability Limits (%) :           | Not flammable     |
| Solubility in Water (g/L) :         | Soluble           |

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## 10. STABILITY AND REACTIVITY

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### Chemical stability:

Stable.

### Conditions to avoid:

Excessive heat. Sunlight.

### Incompatible materials:

Acids, oxidizing agents.

### Hazardous decomposition products:

Refer to section 5 (Fire Fighting Measures).

### Hazardous reactions:

Hazardous polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### Health Effects:

**Swallowed :** May be harmful if swallowed Irritating to the gastric system. For copper sulphate pentahydrate LD50 oral rat 300mg/kg ;oral -human LDLo 50mg/kg.

**Eye :** Irritating to eye tissue.

**Skin :** Irritating to skin tissue.

**Inhaled :** Not considered a hazard with normal laboratory use.

**Chronic Effects:** No known effects.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity:**

No data available.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

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## 14. TRANSPORT INFORMATION

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**UN Number:** 3082

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains copper sulphate)

**Class and subsidiary risk(s):** 9

**Packing Group:** III

**Hazchem Code:** •3Z

**Special precautions for user :**

Nil

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## 15. REGULATORY INFORMATION

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**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**

Not Scheduled

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## 16. OTHER INFORMATION

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END of SDS