

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: October 2019  
Version No: 1

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

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Product Name: Ammonium chloride, copper sulphate and EDTA Solution  
Product Code: 6227  
Other Names: Nil  
Uses: Analytical Reagent

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

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**2. HAZARDS INFORMATION**

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**GHS Classification**

Skin Corrosion/Irritation: Category 2  
Serious Eye Damage/Irritation: Category 2A  
Specific Target Organ Toxicity – Single Exposure (Respiratory Tract) 3

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

WARNING

**Hazard Statement(s)**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P337+P313 If skin irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

**Storage** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal** 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>
Ammonium hydroxide	[1336-21-6]	<3% wt
Copper sulphate pentahydrate	[7758-99-8]	1.25% wt
Ethylenediaminetetraacetic acid	[6381-92-6]	1.86% wt
Ammonium chloride	[12125-02-9]	5.40 % wt
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:**

Solutions will not burn or support combustion. Decomposition products include ammonia fumes.

#### **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.

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### 6. ACCIDENTAL RELEASE MEASURES

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#### **Emergency procedures:**

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

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

Ventilate area. 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.

### 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 – Ammonia TWA - 17 mg/m<sup>3</sup> STEL - 24 mg/m<sup>3</sup>

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

### Engineering Controls:

Do not use in confined spaces. Use only chemical fume hood.

### 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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<b>Appearance :</b>	Blue liquid
<b>Odour:</b>	Ammonia
<b>pH:</b>	Not known <sup>12</sup>
<b>Boiling Point (°C) :</b>	Not applicable
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	Not Known
<b>Flash Point (°C) :</b>	Not flammable
<b>Flammability Limits (%) :</b>	Not flammable
<b>Solubility in Water (g/L) :</b>	Soluble

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## 10. STABILITY AND REACTIVITY

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### Chemical stability:

Stable.

### Conditions to avoid:

Heat.

### Incompatible materials:

Bases, iodine, strong 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 cause irritation. May be harmful if swallowed. Ammonium hydroxide orl-hmn LDLo 43mg/kg.

**Eye :** May be destructive to eye tissue. Ammonium hydroxide eye-rbt 750 ug sev. eye-rbt 100mg rinse sev.

**Skin :** May causes burn. May be harmful if absorbed through skin.

**Inhaled** : May be harmful if inhaled. May cause burning sensation, coughing, wheezing. Ammonium Hydroxide ihl-hmn LCLo 5000ppm

**Chronic Effects:**

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

No data available. Avoid release to the environment.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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**13. DISPOSAL CONSIDERATIONS**

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**

**UN Number:** None Allocated

**UN Proper Shipping Name:** None Allocated

**Class and subsidiary risk(s):** None Allocated

**Packing Group:** None Allocated

**Hazchem Code:** None Allocated

**Special precautions for user :** Nil

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**15. REGULATORY INFORMATION**

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):**

Schedule 6

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**16. OTHER INFORMATION**

**Disclaimer:**

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END of SDS