

AUSTRALIAN CHEMICAL REAGENTS  
**SAFETY DATA SHEET**

Date Prepared: January 2018  
Version No: 6

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

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Product Name: Fehlings No 1 Solution  
Product Code: 0461  
Other Names: Nil  
Uses: Analytical Reagent

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

Contacts: Telephone: 61 08 84402000  
Fax: 61 08 84402001  
Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

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**2. HAZARDS INFORMATION**

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**GHS Classification**

Hazardous to the Aquatic Environment - Long-Term Hazard:  
Category 1

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



**Hazard Statement(s)** H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s)  
Preventative** P273 Avoid release to the environment.

**Response** P391 Collect spillage.

**Storage**

**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 :**

Chemical Entity	CAS No	Proportion
Copper Sulphate pentahydrate	[7758-99-8]	7%
Sulphuric Acid	[7664-93-9]	<0.1%
Water	[7732-18-5]	to 100%

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#### 4. FIRST AID MEASURES

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

**Suitable Extinguishing Media:**

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

**Hazards From Combustion Products:**

Decomposition products include sulphur 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.

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#### 6. ACCIDENTAL RELEASE MEASURES

**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

**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

**National Exposure Standards:**

Worksafe – 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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<b>Appearance :</b>	Clear blue liquid
<b>Odour:</b>	Nil
<b>pH:</b>	2
<b>Boiling Point (°C) :</b>	100
<b>Freezing/melting Point:</b>	Not applicable
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	25
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	1
<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:**

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 :** 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

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

**Packing Group:** III

**Hazchem Code:** ●3Z

**Packaging Method:** 3.8.9

**EPG Number:** 9C1

**IERG Number:** 47

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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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