AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: July 2019
Version No: 2

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Copper Sulphate Sulphuric Acid Reagent
Product Code:	5379
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:	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

2. HAZARDS INFORMATION

GHS Classification

Corrosive to metals**:** Category 1
Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word(s)

WARNING

Pictogram(s)

Hazard Statement(s)

H290 May be corrosive to metals.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)
Preventative

P234 Keep only in original container.
P273 Avoid release to the environment.

Response

P390 Absorb spillage to prevent material damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Copper Sulphate pentahydrate	[7758-99-8]	1.6%

Sulphuric Acid	[7664-93-9]	0.7%
Water	[7732-18-5]	to 100%

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.

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 and 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.

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

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

Sulphuric acid 1mg/m^3 TWA 3mg/m^3 STEL

Biological Limit Values: No data available.

Engineering Controls:

Not usually required with normal use. If dusts or mists are generated, maintain atmospheric concentrations of contaminants well below exposure limits

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Clear blue liquid
Odour:	Nil
pH:	1
Boiling Point (^{0}C) :	100
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25^{0}C) :	25
Vapour Density:	Not applicable
Specific Gravity :	1
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Excessive heat. Sunlight.
Incompatible materials:
Alkalis, hypochlorites, organic materials, sulphites, sulphides, cyanides, aluminum, phosphorus, tin and zinc.
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed : Irritating to the gastric system. Ingestion may cause vomiting, diarrhoea. For copper sulphate pentahydrate LD50 oral rat 300mg/kg ;oral -human LDLo 50mg/kg. For sulphuric acid LD50 oral - rat 2140mg/kg.

Eye : Irritating to eye tissue. For sulphuric acid 100mg rinse produced severe irritation of rabbit eyes.

Skin : Irritating to skin tissue.

Inhaled : Not considered a hazard with normal laboratory use. For sulphuric acid LC50 inhalation - rat 510mg/m^3/2hours

Chronic Effects: Long term exposure to sulphuric acid mists may cause dental erosion.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Environmental toxin – do not allow to enter waterways
Persistence and degradability:
No data available.
Mobility:
No data available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

UN Number: 3264

UN Proper Shipping Name: CORROSIVE LIQUID ACIDIC INORGANIC N.O.S (Contains sulphuric acid 0.7%)
Class and subsidiary risk(s): 8
Packing Group: 111
Hazchem Code: 2X
Special precautions for user :
Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):
Schedule 6

16. OTHER INFORMATION

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END of SDS