

## SAFETY DATA SHEET

### COPPER (II) SULPHATE anhydrous LAB/BP

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#### 1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation:

Catalogue no. : KA1007

Product name : COPPER (II) SULPHATE anhydrous LAB/BP

Synonym: Cupric Sulphate anhydrous

1.2 Use of the substance/preparation: For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm: Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia

Tel no. (61) 2 98998169

Fax no. (61) 2 98997976

1.4 Emergency telephone: + 91 22 6663 6663 (9:00am - 6:00 pm) [ Office hours ]

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#### 2. Identification of dangers

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302n

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1) H410

Classification EC 67/548 or EC 1999/45

Symbol(s) N : Dangerous for the environment.

Xn : Harmful.

R Phrase(s) R22 : Harmful if swallowed.

R36/38 : Irritating to eyes and skin.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s) S2 : Keep out of the reach of children.

S22 : Do not breathe dust.

S60 : This material and its container must be disposed of as hazardous waste.

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Signal words : Warning.

Hazard pictograms



Hazard statements : H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements: 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 or face protection.

P301+P312 : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards: No further relevant information available.

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#### 3. Composition/information on ingredients

Substance / Preparation: Copper (II) sulfate 100%

Formular: CuSO<sub>4</sub>

CAS No : 7758-98-7

EC No : 231-847-6

Annex No : 029-004-00-0

Contains no other components or impurities which will influence the classification of the product.

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#### 4. First-aid measures

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|----------------------------|--|
| 4.1 General indications:   | Never provide drink or induce vomiting in the event of loss of consciousness.                    |
| 4.2 Inhaling:              | Take the person out into the fresh air. In the event sickness persists, seek medical assistance. |
| 4.3 Contact with the skin: | Wash with plenty of water. Remove contaminated clothing.   |
| 4.4 Eyes:                  | Wash with plenty of water, keeping eyelids open. Seek medical assistance.                        |
| 4.5 Ingestion:             | Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.                         |
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#### 5. Fire-fighting measures

- 5.1 Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
  - 5.2 Unsuitable extinguishing media : Do not use a heavy water stream.
  - 5.3 Surrounding fires : Use water spray or fog for cooling exposed containers.
  - 5.4 Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
  - 5.5 Advice for firefighters: Suitable clothing and footwear.
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#### 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with the skin, eyes or clothing.
  - 6.2 Environmental precautions: Avoid pollution of the soil, water supplies and drains.
  - 6.3 Methods and material for containment and cleaning up: Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.
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#### 7. Handling and storage

- 7.1 Handling: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
  - 7.2 Storage: Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.
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#### 8. Exposure controls/personal protection

- 8.1 Exposure controls: No special indications.
  - 8.2 Control parameters: Data not available.
  - 8.3 Respiratory protection: If dust forms, use suitable respiratory protection.
  - 8.4 Hand protection: Use suitable gloves
  - 8.5 Eye/face protection: Use suitable goggles.
  - 8.6 Individual hygiene measures: Remove contaminated clothing. Wash hands and face before breaks and when the job is done.
  - 8.7 Environmental exposure controls: Fulfill the commitments under local environmental protection legislation.
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#### 9. Physical and chemical properties

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|---------------------------------|---------------------------------|
| Appearance:                     | Liquid.                         |
| Colour:                         | Greyish-white amorphous powder. |
| Odour:                          | Odourless.                      |
| pH value:                       | 3.5 - 4.0                       |
| Melting Point:                  | No data available.              |
| Boiling Point:                  | No data available.              |
| Flash point:                    | No data available.              |
| Flammability (solid, gas) :     | No data available.              |
| Evaporation rate :              | No data available.              |
| Vapour pressure (20°C):         | No data available.              |
| Vapour density :                | No data available.              |
| Solubility:                     | 203 g/l in water at 20 °C       |
| Relative density:               | (20/4) 3.61 g/ml                |
| Relative density, gas (air=1) : | No data available.              |
| Partition coefficient:          | No data available.              |
| Viscosity:                      | No data available.              |
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#### 10. Stability and reactivity

- 10.1 Conditions which should be avoided: The product is chemically stable under standard ambient conditions (room temperature).
  - 10.2 Incompatible materials: Hydroxylamine.
  - 10.3 Hazardous decomposition products: Sulphur oxides.
  - 10.4 Chemical stability: No specific data.
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#### 11. Toxicological information

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|----------------------|---------------------------|
| 11.1 Acute toxicity: | LD L0 oral man : 50 mg/kg |
|                      | LD L0 oral hmn : 50 mg/kg |
|                      | LD50 oral rat : 300 mg/kg |

11.2	Dangerous effects for health:	
	Ingestion:	Harmful if swallowed.
	Inhalation:	Based on available data, the classification criteria are not met.
	Dermal:	Based on available data, the classification criteria are not met.
	Irritation:	Causes serious eye irritation. Causes skin irritation.
	Carcinogenicity:	Based on available data, the classification criteria are not met.
	Corrosion:	Based on available data, the classification criteria are not met.
	Mutagenicity:	Based on available data, the classification criteria are not met.
	Toxic for reproduction:	Based on available data, the classification criteria are not met.
	Sensitization:	Based on available data, the classification criteria are not met.

## 12. Ecological information

12.1 Toxicity:	Very toxic to aquatic life with long lasting effects.
12.2 Persistence and Degradability:	May cause long-term adverse effects in the environment.
12.3 Bioaccumulative potential:	Not established.
12.4 Mobility in soil:	Not established.
12.5 Assessment PBT and MPMB:	The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6 Other possible effects on the environment:	Avoid release to the environment.

## 13. Disposal considerations

Disposal considerations: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

## 14. Transport information

14.1 Overland (ADR):	
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class:	9 CONTAM. MAR PELIG.M.AMB Packaging group: III ( E )
14.2 By sea (IMDG):	
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class:	9 CONTAM. MAR PELIG.M.AMB Packaging group: III
14.3 By air (ICAI-IATA):	
Technical name:	Environmentally hazardous substance, solid, n.o.s
UN 3077 Class:	9 CONTAM. MAR PELIG.M.AMB Packaging group: III
Packaging instructions:	CAO 956 PAX 956

## 15. Regulatory information

5.1 Regulatory Information:	Ensure all national/local regulations are observed.
5.2 Poisons Schedule:	Not Scheduled.

## 16. Other Information

Abbreviations and acronyms :	PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Review number and date:	v. 1.0
Date published:	7-Jan-2016
Further information :	None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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