

SAFETY DATA SHEET

COPPER (I) CYANIDE LAB

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

1.1 Identification of the substance or preparation:

Catalogue no. : KA1009

Product name : Copper (I) cyanide LAB

Synonym: Cuprous cyanide

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:

(61) 2 98998169 (9:00am - 5:00 pm) [Office hours]

2. Identification of dangers

2.1 Classification of the substance.

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

Acute toxicity, Inhalation, Category 2: Fatal if inhaled.

Acute toxicity, Dermal, Category 1: Fatal in contact with skin.

Acute toxicity, Oral, Category 2: Fatal if swallowed.

Acute aquatic toxicity, Category 1: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1: Very toxic to aquatic life with long lasting effects.

2.2 Label elements.

Hazard pictograms



Signal words : Danger.

EU Hazard statements (EUH):

EUH032 : Contact with acids liberates very toxic gas.

Hazard statements (H) :

H300 : Fatal if swallowed.

H310 : Fatal in contact with skin.

H330 : Fatal if inhaled.

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

Precautionary statements (P) :

P260 : Do not breathe dust/fume/gas/mist/vapours/spray.

P262 : Do not get in eyes, on skin, or on clothing.

P264 : Wash thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product

P271 : Use only outdoors or in a well-ventilated area.

2.3 Other hazards.

None known.

3. Composition/information on ingredients

Substance / Preparation.

Copper (I) cyanide

Formular: CuCN

CAS No : 544-92-3

Molecular weight : 89.56

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

Mixture.

Not applicable.

4. First-aid measures

4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air. If unconscious, place them in a suitable position and seek immediate medical assistance.

- Skin contact: Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.
- Eyes: Wash with plenty of water, keeping eyelids open and seek medical assistance.
- Ingestion: Never induce vomiting. Seek immediate medical assistance.
- 4.2 Most important symptoms and effects, both acute and delayed.
- Toxic Product, can cause irritant effects, cough, shortness of breath, unconsciousness, headache, impairment of vision and death. If this occurs immediate medical assistance is required.
- 4.3 Indication of any immediate medical attention and special treatment needed.
- In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
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5. Fire-fighting measures

- 5.1 Suitable extinguishing media.
- Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 5.2 Special hazards arising from the substance.
- Special risks: Under fire conditions, toxic fumes (carbon oxides) may present.
- 5.3 Advice for firefighters.
- Do not enter fire area without proper protective equipment, including respiratory protection.
- Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.
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6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures.
- For exposure control and individual protection measures, see section 8.
- 6.2 Environmental precautions.
- Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods and material for containment and cleaning up.
- The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials. Collect spillage.
- 6.4 Reference to other sections.
- For exposure control and individual protection measures, see section 8.
- For later elimination of waste, follow the recommendations under section 13.
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7. Handling and storage

- 7.1 Precautions for safe handling.
- Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original. Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities.
- Store according to local legislation. Well sealed containers. Away from sources of ignition and heat. No metal or containers.
- 7.3 Specific end use(s).
- None.
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8. Exposure controls/personal protection

- 8.1 Control parameters.
- The product does NOT contain substances with Professional Exposure Environmental Limit Values.
- The product does NOT contain substances with Biological Limit Values.
- 8.2 Exposure controls.
- Personal protection : Avoid all unnecessary exposure.
- Respiratory protection : Wear approved mask.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.
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9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties.
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|------------------|----------------------|
| Appearance: | Solid. |
| Colour: | Creamy white powder. |
| Odour: | No data available. |
| Odour threshold: | No data available. |
| pH value: | No data available. |
| Melting Point: | 474 °C |
| Boiling Point: | No data available. |

Flash point:	No data available.
Flammability (solid, gas) :	No data available.
Evaporation rate :	No data available.
Vapour pressure:	No data available.
Vapour density :	No data available.
Lower Explosive Limit:	No data available.
Upper Explosive Limit:	No data available.
Solubility:	No data available.
Density:	2.92 g/cm ³
Relative density:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information.	
None.	

10. Stability and reactivity

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under room temperature.

10.3 Possibility of hazardous reactions.

Reactions possible with strong oxidant agents. strong acids. Magnesium. water.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

No information available.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

11. Toxicological information

11.1 Information on toxicological effects.

Acute toxicity.	LD50 oral rat : 6.44 mg/kg
Inhalation:	Fatal if inhaled.
Dermal:	Fatal in contact with skin.
Ingestion:	Fatal if swallowed.
Corrosion:	Based on available data, the classification criteria are not met.
Irritation:	Based on available data, the classification criteria are not met.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity.

No information available.

12.2 Persistence and Degradability.

Biodegradable.

12.3 Bioaccumulative potential.

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment.

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 adverse effects.

No information is available about other adverse effects for the environment.

13. Disposal considerations

13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

14.1 UN number.

UN No: UN1587

14.2 UN proper shipping name.

ADR: UN 1587, COPPER CYANIDE, 6.1, PG II, (D/E), ENVIRONMENTALLY HAZARDOUS

IMDG: UN 1587, COPPER CYANIDE, 6.1, PG II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

ICAO: UN 1587, COPPER CYANIDE, 6.1, PG II, ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es).

Class(es): 6.1

14.4 Packing group.

Packing group: II

14.5 Environmental hazards.

Marine pollutant: Yes

14.6 Special precautions for user.

Labels: 6.1

Hazard number: 60

ADR LQ: 500g

IMDG LQ: 500g

Provisions concerning carriage in bulk ADR:

Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-A

Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance.

Ensure all national/local regulations are observed.

The product is not affected by REACH Restrictions - Annex XVII

The product is not affected by REACH Authorisation - Annex XIV

15.2 Chemical safety assessment.

Not Scheduled.

16. Other Information

Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50%

IC50: Inhibitory Concentration, 50%

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

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

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Further information.

None.

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