

## Safety Data Sheet **COPPER (II) OXALATE Hemihydrate**

SDS no. 0N6F3NPS • Version 1.0 • Date of issue: 2025-11-08

### SECTION 1: Identification

#### GHS Product identifier

Product name COPPER (II) OXALATE Hemihydrate

#### Other means of identification

Product Product Code

COPPER (II) OXALATE Hemihydrate LR CL417  
Cupric oxalate hemihydrate

#### Recommended use of the chemical and restrictions on use

Catalyst in organic synthesis, rodent repellent in seed coatings and laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, dermal, Cat. 4
- Acute toxicity, oral, Cat. 4

#### GHS label elements, including precautionary statements

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### Pictograms



### Signal word

### Warning

### Hazard statement(s)

H302  
H312

Harmful if swallowed  
Harmful in contact with skin

### Precautionary statement(s)

P264  
P270  
P280  
P301+P312  
P302+P352  
P312  
P362+P364  
P501

Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER/doctor/phycsian if you feel unwell,  
IF ON SKIN: Wash with plenty of water/soap  
Call a POISON CENTER/doctor/phycsian if you feel unwell.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

### Mixtures

<b>Molecular weight</b>	160.57	
<b>Component</b>	<b>Identification</b>	<b>Weight %</b>
Ethanedioic acid, copper(2++) salt (1:1)	CAS no.: 814-91-5 EC no.: 212-411-4	100 %

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

#### General advice

First Aid Facilities: Maintain eyewash fountain in work area.

#### If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

#### In case of skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

#### In case of eye contact

If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

#### If swallowed

Rinse mouth thoroughly with water immediately. Do not induce vomiting. If rapid recovery does not occur, obtain medical attention

### Most important symptoms/effects, acute and delayed

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Small fire: Use dry chemical, CO2 or water spray.

Large fire: Use water spray, fog or foam - Do not use water jets.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire such as carbon oxides and metal fume oxides.

#### Special protective actions for fire-fighters

Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

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## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

#### Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

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## SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

##### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

##### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

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Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	Blueish-green powder.
Color	Blue-green
Odor	Nil
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	~300 °C to copper oxide
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Insoluble. Solubility in Organic Solvents: Insoluble in alcohol and acetic acid. Soluble in ammonium hydroxide.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

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#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatibles

#### Incompatible materials

Oxidising agents.

#### Hazardous decomposition products

Oxides of carbon and metal oxide fume.

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## SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Ingestion: Harmful if swallowed. May cause vomiting, gastric pain, dizziness, anaemia, cramps, convulsions, shock, coma and death. Oxalates are powerful irritants and corrosive to tissue. Oxalates have a caustic effect on the mouth, oesophagus and stomach.

Inhalation: May cause irritation.

##### Skin corrosion/irritation

Harmful in contact with skin. Irritating to skin and mucous membranes.

##### Serious eye damage/irritation

Not classified based on available information.

##### Respiratory or skin sensitization

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

##### Reproductive toxicity

Not classified based on available information.

##### Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

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#### Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

#### Aspiration hazard

Not classified based on available information.

#### Additional information

Chronic Effects: Copper compounds may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas.

Oxalates are readily absorbed and can cause severe kidney damage.

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## SECTION 12: Ecological information

#### Toxicity

Ecotoxicity: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Do not allow material to be released to the environment without proper governmental permits.

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## SECTION 13: Disposal considerations

#### Disposal methods

#### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

#### ADG (Road and Rail)

UN Number: 3288

Class: 6.1

Packing Group: III

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S.(Contains COPPER(II) OXALATE)

#### Hazchem emergency action code (EAC)

2X

#### IMDG

UN Number: 3288

Class: 6.1

Packing Group: III

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S.(Contains COPPER(II) OXALATE)

#### IATA

UN Number: 3288

Class: 6.1

Packing Group: III

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S.(Contains COPPER(II) OXALATE)

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## SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: S6

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#### New Jersey Right To Know Components

Common name: Cupric oxalate

CAS number: 814-91-5

#### Canadian Domestic Substances List (DSL)

Chemical name: Ethanedioic acid, copper(2++) salt (1:1)

CAS: 814-91-5

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## SECTION 16: Other information

#### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

#### Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)