

SAFETY DATA SHEET

Product Name: Plant Health Copper Fungicide Liquid Concentrate

Print/View Date: 29/05/2025

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	Plant Health Copper Fungicide Liquid Concentrate
Recommended uses:	Inorganic cuprous fungicide
Restrictions on Use/Supply:	Qualifications required for application of ecotoxic pesticides. Do not apply directly into or onto water
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

GHS Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Acute (oral) Tox. 4.	Not applicable for the UN RTDG Model Regulations		Warning	H302	P102 P103 P264 P270	P101 P301+P312 P330	No storage statements	P501
Skin Irrit 2	Not applicable for the UN RTDG Model Regulations		Warning	H315	P103 P264 P280	P302+P352 P321 P333+P313 P362+P364	No storage statements	P501
Eye Irrit. 2	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 P264 P280	P305+P351+P338 P337+P313	No storage statements	P501
Skin Sens 1	Not applicable for the UN RTDG Model Regulations		Warning	H317	P261 P272 P280	P302+P352 P333+P313 P321 P363	No storage statements	P501
STOT Rep. Exp. 2	Not applicable for the UN RTDG Model Regulations		Warning	H373	P260	P314	No storage statements	P501
Aquatic Acute 1			Warning	H400	P103 P273	P391	No storage statements	P501
Aquatic Chronic 1			Warning	H410	P273	P391	No storage statements	P501

Signal word: WARNING

Dangerous Goods: Dangerous Goods (Class 9)

Packaging Group: III

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Hazardous Substance (GHS) Codes: Acute (oral) Toxicity Cat. 4
Skin Irritation Cat. 2
Eye Irritation Cat. 2
Skin Sensitisation Cat. 1
Specific Target Organ Toxicity (repeated exposure) Cat. 2
Aquatic Acute Cat. 1
Aquatic Chronic Cat. 1
Hazardous to terrestrial vertebrates.

Pictograms:



Hazard Statement: H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H373: May cause damage to organs through prolonged or repeated oral exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product

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P272: Contaminated work clothing should not be allowed out of the workplace

P273: Avoid release to the environment.

P280: Wear protective gloves and eye protection/face protection.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P314: Get medical advice if you feel unwell.

P321: Specific treatment on the label.

P330: Rinse mouth

P333+313: If skin irritation or rash occurs: Get medical advice.

P337+313: If eye irritation persists: Get medical advice.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Blue/green liquid.

Ingredients

Ingredients	CAS #	Content %
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Tribasic copper sulfate	12527-76-3	19%
Propylene Glycol	57-55-6	8%
Non specified non-hazardous ingredients	NA (Mixture)	to 100%

4. FIRST AID MEASURES

General information:	In case of accident, or if you feel unwell, seek medical advice and have product label at hand.
Ingestion:	Rinse mouth and drink one or two glasses of milk or water. Do NOT induce vomiting. If feeling unwell, get medical advice or call NZ Poisons Centre on 0800 764 766 and have product label at hand.
Eye Contact:	Causes serious eye irritation. If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If irritation persists, get medical advice and have product label at hand.
Skin Contact:	Causes skin irritation or an allergic skin reaction. If on skin, wash with plenty of soap and water. If skin irritation or rash develops, get medical advice and have product label at hand.
Inhalation:	Unlikely to cause an inhalation hazard. If breathing problems develop, remove to fresh air and keep at rest in a position comfortable for breathing.
Advice for Medical Doctors:	Treat symptomatically

5. FIRE FIGHTING MEASURES

HAZCHEM code:	3Z
Specific Hazards:	Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are water, CO ₂ powder or alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.

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Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Safely dispose of fire-control, water or other extinguishing agent used and any spillage.
Hazardous Products of Combustion:	Cupric oxide, sulfur trioxide, carbon dioxide, carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 L):	Wear protective gloves and eye/face protection. Clear area of unprotected personnel. Contain spill and collect. Ensure adequate ventilation. Do not allow product or washings to enter the waterways or sewer
Major Spills (more than 20 L):	<p>Wear protective gloves and eye/face protection. Minimise spread. Contain spill and collect. Ensure adequate ventilation Do not allow product or washings to enter waterways or sewer. If spill does enter waterway contact local authority.</p> <p>Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.</p>

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin and eye. Avoid inhaling spray. When handling product in bulk, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking, or smoking. Wash contaminated clothing before reuse. Contaminated clothing should not be allowed out of the workplace. Clean equipment after use. Do not
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apply into or onto water. Do not contaminate drains, sewers, or waterways.

Qualifications required for application of ecotoxic pesticides.

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from strong oxidants, foodstuffs, children, and animals. Do not allow product to get wet in storage.

Protection against fire and explosion:

Although product is non-flammable, keep away from heat sources. The product is not explosive. Keep away from oxidising agents and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

See 'Exposure Standards' below (Workplace Exposure Standards and Biological Exposure April 2022, Edition 13)

Engineering Controls:

No special requirements when used as recommended.

Hand protection:

Wear chemical resistant gloves

Eye protection:

Wear safety glasses during mixing and application

Body protection:

Skin protection not ordinarily required beyond standard issue work clothes.

Respiratory Protection:

No special requirements when used as recommended.

General safety and hygiene measures:

Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes, and clothing. Store work clothing separately.

Environmental Exposure Controls:

Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation

Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³

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Propylene glycol (vapour and particulates) (particulates only)	57-55-6	150	- 474 10	-	-
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Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Use restriction	77A	The substance must not be applied onto or into water
Use restriction	HPC Notice Part 4 Subpart C	Qualifications required for application of ecotoxic pesticides when applied in a wide dispersive manner or used by a commercial contractor.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue/green liquid.
Odour:	No data
Odour Threshold:	No data
pH Value:	7
Melting/freezing point:	-3°C
Boiling point (range):	100°C
Flash Point:	No data
Flammability:	Not applicable
Explosive limits:	Not applicable
Vapour pressure:	No data
Vapour density:	No data
Relative density:	1280 g/L
Solubility:	Miscible
Partition coefficient:	No data
Auto-ignition temperature:	Not applicable

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Decomposition temperature: No data

Viscosity: No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity: Stable under normal conditions of use. Not explosive or oxidising.

Incompatibility or conditions to be avoid: Avoid contact with strong acids, iron, aluminium and its alloys. Avoid excessive heating.

Corrosive Properties: Not corrosive.

Thermal Decomposition: Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Class:

- Acute (oral) Toxicity Cat.4
- Skin Irritation Cat. 2
- Eye Irritation Cat. 2
- Skin Sensitisation Cat. 1
- Specific Target Organ Toxicity (repeated exposure) Cat. 2
- Aquatic Acute Cat. 1
- Aquatic Chronic Cat. 1
- Hazardous to terrestrial vertebrates.

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Acute Toxicity:	No data for the mixture Tribasic copper sulfate: Acute oral LD ₅₀ = 2500 mg/kg (rat) Acute dermal LD ₅₀ = 2000 mg/kg (rat) Propylene glycol: Acute oral LD ₅₀ = 22,000 mg/kg (rat) Acute dermal LD ₅₀ : No data
Aspiration hazard:	Unlikely to cause an aspiration hazard
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific organ toxicity – single exposure:	Not applicable
Specific organ toxicity – repeated exposure:	May cause damage to organs through prolonged or repeated oral exposure.
Narcotic effects:	No data available.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated	

12. ECOTOXICITY INFORMATION

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Ecological information of substance: Very Toxic to aquatic life with long lasting effects. Do not contaminate waterways, sewers, or drains when using product or packaging.

No data for mixture.

Tribasic copper sulfate:

Rainbow trout, LC_{50} (96 hr) = 3.75 mg/L

Water flea, EC_{50} (48 hr) = 0.00675 mg/L

Propylene glycol:

Rainbow trout, LC_{50} (96 hr) = 51,600 mg/L

Water flea, EC_{50} (48 hr) = 10,000 mg/L

Bioaccumulation: In large quantities, copper can bioaccumulate in soil and aquatic species. Propylene glycol degrades rapidly into environment.

Soil Toxicity: Non-toxic with recommended quantity and frequency of application.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation: Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

Container Disposal: Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations.

DO NOT reuse containers. DO NOT burn.

Methods of disposal to avoid Do not empty down stormwater system or into waterway.

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number: 3082

Dangerous Goods Class: Class 9

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Hazchem Code:	3Z
Packaging Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper 19%)
Segregation:	Not applicable

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR100808
GHS Classifications:	Acute (oral) Toxicity Cat.4 Skin Irritation Cat. 2 Eye Irritation Cat. 2 Skin Sensitisation Cat. 1 Specific Target Organ Toxicity (repeated exposure) Cat. 2 Aquatic Acute Cat. 1 Aquatic Chronic Cat. 1 Hazardous to terrestrial vertebrates.
HSNO Controls:	Refer to HSR100808
ACVM Registration	Registered pursuant to the ACVM act 1997, P009562. See www.foodsafety.govt.nz for registration conditions.
Additional Controls:	APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

16. OTHER INFORMATION

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SDS date of preparation: 26 / 02 / 2025

SDS date of revision: 26 / 02 / 2030

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR:	European agreement concerning the international carriage of Dangerous goods by Road
CLP:	Classification Labelling and Packaging
EC:	European Commission
EU:	European Union
GHS:	Global Harmonized System
H Phrase:	Hazard Phrase
HSNO:	Hazardous Substances and New Organisms (1996) Act
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IMDG:	International Maritime Dangerous Goods
P Phrase:	Precautionary Phrase
RID:	Regulations concerning the International carriage of Dangerous good by rail
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

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