

Product Name: Plant Health Copper Fungicide Liquid Concentrate

Print/View Date: 6/07/2020

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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

The substance must not be applied onto or into

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: <u>info@kiwicare.co.nz</u>

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

HSNO	Transport	GHS	Signal	Hazard	Precautionary statement codes			
Hazard Classification	of Dangerous Goods Pictogram	Pictogram	word	statement code	Prevention	Response	Storage	Disposal
6.1D (oral)	Not applicable for the UN RTDG Model Regulations		Warning	H302	P102 P103 P264 P270	P101 P301+P312 P330	No storage statements	P501
6.1D (dermal)	Not applicable for the UN RTDG Model Regulations		Warning	H312	P102 P103 P280	P101 P302+P352 P312 P322 P363	No storage statements	P501
6.1D (inhalation)	Not applicable for the UN RTDG Model Regulations		Warning	H332	P102 P103 P261 P271	P101 P304+P340 P312	No storage statements	P501
6.3A	Not applicable for the UN RTDG Model Regulations		Warning	H315	P103 P264 P280	P302+P352 P321 P332+P313 P362	No storage statements	P501
6.4A	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 P264 P280	P305+P351+P338 P337+P313	No storage statements	P501
6.5B	Not applicable for the UN RTDG Model Regulations		Warning	H317	P103 P261 P272 P280	P302+P352 P333+P313 P321 P363	No storage statement	P501
6.9B (single exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H371	P103 P260 P264 P270	P309+P311	P405	P501
6.9B (repeated exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 P260	P314	No storage statements	P501
9.1A	¥2	*	Warning	H400	P103 P273	P391	No storage statements	P501



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9.3B	Not applicable for the UN RTDG Model Regulations	\$	No signal word	H432	P103 P2733	P391	No storage statements	P501
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Signal word: WARNING

Dangerous Goods: Dangerous Goods (Class 9)

Packaging Group:

Hazardous Substance (HSNO) Codes: 6.1D, 6.3A, 6.4A, 6.5B, 6.9B, 9.1A, 9.3B

Pictograms:



Hazard Statement: H302: May be harmful if swallowed.

H312: May be harmful if in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H320: Causes mild eye irritation.

H373: May cause damage to organs through

repeated exposure

H400: Very toxic to aquatic life.

H432: Toxic to terrestrial vertebrates.

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. P261: Avoid breathing spray.

P264: Wash thoroughly after handling.

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

product

P272: Contaminated work clothing should not be

allowed out of the workplace.

P273: Avoid release to the aquatic environment.



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

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

P322: See Specific measures on product label

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment on the label.

P330: Rinse mouth

P362: Take off contaminated clothing and wash before re-use.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

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

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

P332+313: If skin irritation occurs: Get medical advice/ attention.

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

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

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

P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Greenish blue liquid

Ingredients

Ingredients	CAS#	Content %
Copper [present as CuSO ₄ .3Cu(OH) ₂]	12527-76-3	19%
Propylene Glycol	57-55-6	8%
Other ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek

medical advice (show the label where possible).

Ingestion: Never give anything by mouth to an

unconscious person. If swallowed do NOT

Eye Contact: induce vomiting. For advice, contact the

National Poisons Centre (0800 764766). Seek

medical assistance immediately.

Skin Contact: Flush eyes with plenty of water for 15 minutes

holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present

and easy to do.

Inhalation: Immediately flush body and clothes with large

amounts of water. Remove contaminated

clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek

medical assistance.

Advice for Medical Doctors: Remove patient to fresh air. Lay down and keep

warm and rested. If breathing is shallow or has

stopped ensure airway is clear and apply resuscitation. Seek medical assistance

immediately.



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FIRE FIGHTING MEASURES.

3Z HAZCHEM code:

Specific Hazards: Keep up wind. Do not allow washings to reach

sewage or effluent systems.

Suitable Extinguishing Media: If involved in a fire, the product will not burn.

> Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry

chemical. Do not use water in a jet.

Fire Fighting Advice: Fire fighters should wear full protective gear,

> including self-contained breathing apparatus (AS/NZS 1715/1716). Dispose of fire control water or other extinguishing agent and spillage

safely later.

Hazardous Products of Combustion: Thermal decomposition products may include:

copper oxide, calcium sulphate and water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment, and emergency procedures:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation.

For personal protection see section 8.

Prevent leakage or spillage if safe to do so. Environmental precautions:

Minor Spills (Up to 20 kg): Wear protective clothing. Clear area of

> unprotected personnel. Contain spill and collect. Do not allow product or washings to

enter the waterways or sewer.



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6. ACCIDENTAL RELEASE MEASURES

Major Spills (more than 20 kg): Wear protective clothing. Clear area of

unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and

national regulations.

Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at

an authorised installation.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid skin and eye contact and inhalation of

spray mist. 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. TRACKING: Is not required 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.

Conditions for safe Storage including

incompatibilities:

Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of the substance require secondary containment and are subject to signage, and more than 100L

require emergency response plans.

Protection against fire and explosion: Keep away from heat sources although the

product has no flammability. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: See 'Exposure limits' below (Workplace

Exposure Standards and Biological Exposure

Indices 11th edition)



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No special requirements when used as

recommended.

Hand protection: Suitable chemical resistant gloves are

recommended for applicants.

Eye protection: Wear safety glasses or full-face shield if

splashes are likely to occur.

Body protection: When opening the container, preparing spray

and using the prepared spray wear safety goggles, waterproof gloves, washable hat, cotton overalls buttoned to the neck and wrist,

and boots.

Respiratory Protection: No special requirement 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. Minimise 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:

		TWA		STEL	
Substance	Cas #	ppm	mg/m³	ppm	mg/m³
Propylene glycol	57-55-6				
Vapour and particulates		150	474		
Particulates only			10		

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Use restriction	77A	The substance must not be applied onto or into water.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Greenish-blue liquid

Odour: No data

Odour Threshold: No data

pH Value: 7 at 13 g/L

Melting/freezing point: Crystallisation ca. -3 °C

Boiling point (range): No data

Flash Point: No data

Flammability: Not applicable

Explosive limits: No data

Vapour pressure: No data

Vapour density: No data

Relative density: 1.28 g/mL

Solubility: Disperses in water

Partition coefficient: No data

Auto-ignition temperature: No data

Decomposition temperature: No data

Viscosity: No data

10. STABILITY AND REACTIVITY

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

explosive or oxidising.

Chemical/material Incompatibilities Avoid contact with strong acids, iron, aluminium

and its alloys.

Conditions to be avoid: Avoid excessive heating



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10. STABILITY AND REACTIVITY

Thermal Decomposition: Hazardous products of combustion; see section

5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Classes 6.1D, 6.3A, 6.4A, 6.5B, 6.9B, 9.1A, 9.3B

Acute Toxicity: Acute oral $LD_{50} = 2500 \text{ mg/kg}$ (rat).

Acute dermal LD₅₀ >2000 mg/kg (rat)

Acute inhalation LC_{50} (4 hr) > 2.6 mg/L (rat)

Aspiration hazard May cause irritation on inhalation of mist, gas,

or vapour

Skin corrosion/irritation: Repeated or prolonged exposure may cause

skin irritation and dermatitis, due to degreasing

properties of the product

Serious eye damage/irritation:

May cause eye irritation

Respiratory or skin sensitisation: May cause skin sensitisation and/or contact

dermatitis

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:

No data available

Specific organ toxicity – repeated

exposure:

No data available

Narcotic effects: No data available.



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11. TOXICOLOGICAL INFORMATION

Prolonged contact may give rise to some skin diseases especially if small cuts, scratches or abrasions are present or if irritation by contaminated clothing occurs. Elementary hygiene precautions will avoid these risks.

Copper Sulphate: Workers exposed by inhalation have reported irritation of the nose and throat, occasional ulceration of the nasal septum, and inflammation and diffuse fibrosis of the lungs. Humans exposed to high levels in drinking water have experienced abdominal pain, vomiting, diarrhoea, nausea, and a metallic taste in the mouth.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance: Copper sprays can cause injury to tender

foliage or hasten leaf fall. Eco-toxicological data have not been determined specifically for this product. Data below is for the active ingredient

unless otherwise stated.

Rainbow trout, LC50 (96 hr) >100 mg/L Water Flea, EC50 (48 hr) 0.72mg/L

Bioaccumulation potential: BCF <1. Not likely to be Bioaccumulative

Soil Toxicity and degradability: No soil toxicity. This product does not contain

any components considered to be persistent.

Mobility in soil No data

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.

Methods of disposal to avoid Do not empty down stormwater system



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14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number: 3082

UN Dangerous Goods Class: Class 9

Hazchem Code: 3Z

UN Packaging Group:

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. - (copper, 19%)

Segregation: Do not carry this product on a passenger

service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer

NZS5433 sea segregation for details.

15. N.Z. REGULATORY INFORMATION

HSNO approval Number: HSR100808

HSNO Classifications: 6.1D, 6.3A, 6.4A, 6.5B, 6.9B, 9.1A, 9.3B

HSNO Controls: Refer to HSR100808

Other 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.

TRACKING: Is not required

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.



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16. OTHER INFORMATION

SDS date of preparation: 03 / 07 / 2020

SDS date of revision: 03 / 07 / 2025

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

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System.

EC: European Commission.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

STEL: Short-Term Exposure Limit.

H Phrase: Hazard phrase.

P Phrase: Precautionary phrase.