

Liquid Copper MATERIAL SAFETY DATA SHEET

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Liquid Copper
Product 1° DG Class	9.1 Toxic to the Aquatic Environment
Revision Date	August 2017
Product Description	Liquid Copper is a fungicide and bactericide product for control of certain diseases of ornamental horticultural crops.
Formulation type	Liquid Suspension Concentrate – SC
Active ingredient(s)	35 gram per litre Copper (II) Hydroxide
Packaging	1 litre PE UN Approved Jerry Can with tamper evident lid (ALTO NZ)

Supplied by Manufacturer

Suntec (NZ) Ltd,
Manufacturing 747 Makerua Road (SH57) , Tokomaru, New Zealand
Offices at 20 Rewarewa Street, Tokomaru, New Zealand

Contact

Suntec (NZ) Ltd,
P O Box 41, Tokomaru 4864, New Zealand
+64 6 3298142, fax +64 6 3298041,
Suntec NZ Ltd 24 hour emergency contact 0274796143
internet www.suntec.co.nz/fungicide.htm
email suntec@suntec.co.nz

**Poisons Information Centre
New Zealand
Telephone 0800 764766**

2. HAZARD IDENTIFICATION

Emergency Overview

- Low toxicity by ingestion.
- Irritating or damaging to eyes and irritating to skin.
- Toxic to target organs
- Toxic to the Aquatic Environment

Carcinogenicity Not carcinogenic

Acute Health Hazard Low toxicity.

Chronic Health Hazard Avoid long term exposure.
HSNO CLASSIFICATION 6.9A

Inhalation No Hazard

Eye irritation AVOID CONTACT WITH EYES. Can be damaging or corrosive to eyes.
HSNO CLASSIFICATION 6.4A

Skin Absorption Avoid prolonged skin contact.
HSNO CLASSIFICATION 6.5B

Ingestion NONE – Involuntary reaction on swallowing prevents ingestion

3: COMPOSITION / HAZARDOUS INGREDIENTS INFORMATION

Hazardous Ingredient	Concentration	CAS Number	UN Number	Classification
Active ingredient Copper Hydroxide	35 g/l (3.5%)	20427-59-2	(3077)	9.1A
- Liquid Copper Manufactured and formulated by Proprietary Method -				

Other non-hazardous/non-regulated ingredients and water make up product to total volume and 100%

HSNO classification of the substance

Hazardous ingredients	Copper salts. Alkali.
HSNO Status	6.3A Skin Irritant 6.4A Eye Irritant 6.5B Sensitizer 6.9A Toxic to target organs 9.1A Toxic to Aquatic Environment

4. FIRST AID MEASURES

Inhalation	None
Eye Contact	If splashed in eyes <ul style="list-style-type: none">Remove contact lenses if wornWash eyes with plenty of warm water for approximately 15 minutes.Seek medical assistance.
Skin Contact	If spilt on skin <ul style="list-style-type: none">Remove clothing from affected areaWash with warm water and detergent.Rinse with clean water.If irritation develops seek medical attention
Ingestion	No recommended procedures. Give plenty of water. Seek urgent medical attention. If product remains ingested, use gastric lavage and treat as for ingestion of alkali material containing inorganic copper salts.
Emergency Treatment	No recommended procedures. Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

Liquid copper is not combustible

Extinguishing Media If Liquid Copper is involved in fire use extinguishing media suitable for the fire.

6. SPILLAGE - ACCIDENTAL RELEASE MEASURES

Land Spill	Small spills (< 20 litre) - Flush area with hot water and detergent. OR Bulk spill (>20 litre) <ul style="list-style-type: none">Absorb spilt material with inert material (sand, earth, sawdust)Ventilate area.Clearly label containers of spilt materialDispose of contained spilt material in approved landfill.
Water Contamination	No special precautions and No long term adverse effects Avoid further spillage of concentrate into waterway. Ensure adequate dilution of spilt material.

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7. HANDLING AND STORAGE

Storage

- Store sealed and dry under cool dark conditions.
- Keep out of reach of children
- Do not mix with any other material.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Handling NeemaAQ® Concentrate

Skin Protection (gloves), Respiratory and eye protection recommended.

Applicators

Skin and eye protection recommended during measuring and mixing, and if applicator is in close proximity to the spray material during application, eg in greenhouse. For outside use normal clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale blue liquid
Physical State	Liquid
Odour	Odourless
Specific Gravity	1150 g per litre
pH	7.2-7.5
Solubility in Water	Insoluble.
Flammability	Non-flammable

10. STABILITY AND REACTIVITY

Stability

Under normal storage conditions Liquid Copper is stable indefinitely

Reactivity

Liquid Copper may react with acidic materials, or organic solvents, resulting in combination products of more neutral pH and unknown qualities.

11: TOXICOLOGICAL INFORMATION

ORAL LD₅₀	>2000 mg/kg (NON TOXIC)
DERMAL LD₅₀	> 2000 mg/kg (NON TOXIC)
Skin Reactivity	Irritates skin
Eye Corrosivity	Corrosive to eyes
HSNO CLASSIFICATION	6.3A, 6.4A, 6.5B

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12: ECOLOGICAL INFORMATION

ECOTOXICITY

- Toxic to aquatic life - crustaceans and aquatic insects.
- Harmful to Aquatic life –fish

HSNO CLASSIFICATION 9.1A

ECOTOXIC CONSIDERATIONS

- Inorganic copper persists and accumulates in the environment and food chain

13: DISPOSAL CONSIDERATIONS

Disposal of empty containers

Triple rinse empty containers and either

- dispose in landfill

Or

- contact Suntec NZ Ltd to arrange recycling through authorized wholesale supplier (may not apply to all products or areas)

14: TRANSPORT INFORMATION

Liquid Copper as supplied is not a dangerous good (NON-DG) for the purposes of marine or land transport.

Not to be supplied or transported in quantities greater than 1 litre

15: REGULATORY INFORMATION

Liquid Copper is exempted registration pursuant to the ACVM Act 1997 (Non food use)

Liquid Copper matches existing approved substances pursuant to HSNO Act 1996

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16: OTHER

Disclaimer

The information contained in this Material Safety Data Sheet (MSDS) is correct at the time of issue, to the best of the knowledge of the manufacturer Suntec NZ Ltd.

The information contained in this MSDS relates only to Liquid Copper supplied directly by Suntec NZ Ltd or its authorized distributors, and does not apply to repackaged product or to its use in combination with other materials or in any process.

Users of Liquid Copper are encouraged to follow label directions at all times and comply only with those label directions.

Suntec NZ Ltd assumes and shall incur no liability for any damages, losses, injuries, costs, or consequential damages that may result from the use or misuse of Liquid Copper and the recipient assumes all of such liability.