TRIBASIC LIQUID

Material Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Tribasic Liquid

Product Type: Group M1 Fungicide

Company Name: Melpat International Pty Ltd

Address: 4/22 Parry Avenue

Bateman, WA 6150

Telephone Number: (08) 9312 3200 **Fax Number:** (08) 9312 3233

Recommended Use:For control of various diseases of certain fruit, nuts, vegetables and ornamentals as per the

Directions for Use table on the label.

This MSDS describes, to the best of our knowledge, the properties of the concentrated

product. The physical properties and some of the assessments do not apply to the

properties of the product once it has been diluted for application. Acute health effects of

the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Other Information:

Hazard Classification: NON-HAZARDOUS SUBSTANCE

Not classified as Hazardous.

Dangerous goods classification according to the Australia Dangerous Goods Code

Other Information: Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients Name CAS Proportion Copper present as tribasic copper 1344-73-6 190 g/L sulphate

Ethylene glycol 107-21-1 80 g/L

Other Ingredients Balance



FIRST AID MEASURES

Over-exposure by inhalation is improbable. Check for other causes of observed symptoms Inhalation:

and seek medical advice.

Rinse mouth and then drink plenty of water.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this **Ingestion:**

container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin: Wash affected areas thoroughly with soap and water.

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 Eve:

minutes. Seek medical advice.

If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 First Aid Facilities:

(Australia).

Treat symptomatically.

For exposure to Ethylene Glycol: **Advice to Doctor:**

Remove ingested glycol by gastric lavage or emesis.

Give ethanol to prevent metabolism of ingested ethylene glycol to oxalate.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing

Media

If involved in a fire, the product will not burn. Choose extinguishing media to suit the

burning material.

Non-combustible.

Hazards from

Combustion Products

May emit hazardous smoke and fumes if involved in fires or exposed to extreme

Special Protective Equipment for fire

fighters

Breathable air apparatus may have to be worn if material is involved in fires especially in

confined spaces.

Hazchem Code None Allocated

ACCIDENTAL RELEASE MEASURES 6.

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as

vermiculite). Spills & Disposal

Collect spilled material and waste in sealable open-top type containers for disposal.

For appropriate personal protective equipment (PPE), refer Section 8.

Personal Protection If product has dried out and the possibility of dust generation exists, wear a suitable

respirator

Clean-up Methods -

Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or other absorbent

Environmental Use earthen bunds or absorbent bunding to prevent spreading of spillage. **Precautions**

Prevent product or washings from entering drains, waterways or sewers.



7. HANDLING AND STORAGE

Precautions for Safe

Handling

Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or

used containers.

Conditions for Safe

Storage

Store in the closed, original container in a cool, well-ventilated area.

Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NOHSC has set the following exposure standard for copper (as Cu) (dusts and mists):

TLV (TWA) 1 mg/m3, STEL -.

National Exposure

Standards

NOHSC has set the following exposure standard for ethylene glycol: TLV (TWA) 10

mg/m3, STEL -. SK

'SK' notice - absorption through the skin may be a significant source of exposure. The

exposure standard is invalidated if such contact should occur.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

It is good practice to wear suitable personal protective equipment (PPE).

Personal Protective

Hygiene Measures

Equipment

When opening the container, preparing spray and using the prepared spray wear cotton

overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and

goggles.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly

with soap and water. After each day's use, wash contaminated clothing and safety

equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Appearance Greenish-blue liquid

Solubility in Water Disperses in water

Specific Gravity 1.28

Vapour Pressure Active ingredient is an inorganic salt. Not volatile.

Volatile Component Active ingredient is not volatile

Flammability Non-combustible material

10. STABILITY AND REACTIVITY

Incompatible Materials
Iron, strong acids, aluminium and its alloys

Hazardous Polymerization

Hazardous polymerisation is not possible



11. TOXICOLOGICAL INFORMATION

The components of the product are of low volatility and no adverse effects are expected Inhalation

from handling the concentrate.

Possible symptoms of exposure of the concentrate include: vomiting, stomach pains, **Ingestion**

symptoms attributed to the central nervous system and kidneys, haemolytic crisis

accompanied by damage in the liver and brain.

Skin May irritate the skin.

May irritate the eyes. Eye

Based on available data, repeated exposures are not anticipated to cause additional **Chronic Effects**

significant adverse effects.

Acute Toxicity - Oral LD50 (rat) approx. 2500 mg/kg for the formulated product

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for the formulated product

Acute Toxicity - Inhalation LC50 (rat) (4hr) > 2.6 mg/l

Eye Irritation Not an eye irritant.

Not a skin irritant. **Skin Irritation**

ADI for copper is 0.2 mg/kg/day, NOEL - mg/kg/day. **Other Information**

(Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2005).

12. ECOLOGICAL INFORMATION

Known Harmful Effects on the

Environment

The product is a marine pollutant for sea transport.

Do not contaminate dams, waterways or sewers with this product or the **Other Precautions**

containers which have held this product.

Environment Protection Spray drift should be avoided, read the label for more information.

The following data is for the formulated product. **Acute Toxicity - Fish**

Not toxic to fish. LC50 (96 hr.) for rainbow trout is >100 mg/l.

Acute Toxicity - Daphnia EC50 (48hr) for daphnia magna is 0.61 mg/l.

EC50 (72hr) for Scenedesmus subspicatus >100 mg/l. **Acute Toxicity - Algae**

Birds: Not toxic to birds. LD50 for Japanese quail is 1428 mg/kg **Acute Toxicity – Other Organisms**

Not toxic to bees.



13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable.

Product Disposal

Ideally, the product should be used for its intended purpose. If there is a need to dispose of

the product, approach local authorities who hold periodic collections of unwanted

chemicals (ChemCollect).

Do not use this container for any other purpose.

Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in

accordance with local regulations.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non-returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local

Council, and offer the container for

collection in the program.

If recycling, replace cap and return clean containers to recycler or designated collection

point.

If not recycling, puncture or shred and bury containers in local authority landfill.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Container Disposal

U.N. Number None Allocated

Proper Shipping Name None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

Storage and Transport

Considered non dangerous for transport by the Australian Code for the Transport of

Dangerous Goods by Road and Rail

UN Number (Sea Transport) 3082

IMO Class/Packing Group Class 9; Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains tribasic copper sulphate)

15. REGULATORY INFORMATION

Poisons Schedule S6

POISON

Packaging & Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia)

All of the components in this product are listed on the Australian Inventory of

Chemical Substances.



For further details, please contact Melpat International Pty Ltd:

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June 2017

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