

Material Safety Data Sheet

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Issue Date: April 2006 ISSUED by NUFARM 3NUBD

Product Name: Tri-Base Blue Flowable Copper Fungicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Tri-Base Blue Flowable Copper Fungicide

Product Code 7025

Product Type Group Y Fungicide

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia

Emergency Tel. 24hr 1800 033 498

Telephone/Fax Tel: (03) 9282-1000 Fax: (03) 9282-1001

Number

Recommended Use

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

Directions for Use table on the label.

Other Information 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

Acute health effects of the diluted product are likely to be much application.

less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Liquid

Ingredients <u>Name</u> **Proportion** 1344-73-6 190 g/L

Copper present as tribasic copper

sulphate

Ethylene glycol 107-21-1 80 g/L

Other Ingredients Balance

4. FIRST AID MEASURES

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

symptoms and seek medical advice.

Ingestion Rinse mouth and then drink plenty of water.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this 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.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at

least 15 minutes. Seek medical advice.

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

(Australia).



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Advice to Doctor Treat symptomatically.

For exposure to Ethylene Glycol:

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

Media suit the burning material.

Hazards from Non-combustible.

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

Speical Protective Equipment for fire Breathable air apparatus may have to be worn if material is involved in fires

especially in confined spaces.

fighters

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

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

vermiculite)

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

disposal.

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

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

Precautions

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

7. HANDLING AND STORAGE

Precautions for Safe

Handling

Storage

Environmental

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

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

chemical or used containers.

Conditions for Safe

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

National Exposure Standards

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

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

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.

Personal Protective Equipment

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

Hygiene Measures 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



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Product Name: Tri-Base Blue Flowable Copper Fungicide

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

Materials

Hazardous Hazardous polymerisation is not possible.

Polymerization

11. TOXICOLOGICAL INFORMATION

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

expected from handling the concentrate.

pains, symptoms attributed to the central nervous system and kidneys, hemolytic

crisis accompanied by damage in the liver and brain.

Skin May irritate the skin.

Eye May irritate the eyes.

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

additional significant adverse effects.

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

Acute Toxicity -

LD50 (rat) >2000 mg/kg for the formulated product

Dermal

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

Inhalation

Eye Irritation Not an eye irritant.

Skin Irritation Not a skin irritant.

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

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

12. ECOLOGICAL INFORMATION

Known Harmful The product is a marine pollutant for sea transport.

Effects on the Environment

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

which have held this product.

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

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

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

Acute Toxicity -

EC50 (48hr) for daphnia magna is 0.61 mg/l.

Daphnia

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

Acute Toxicity - Other Birds: Not toxic to birds. LD50 for japanese quail is 1428 mg/kg

Organisms Not toxic to bees.

13. DISPOSAL CONSIDERATIONS



Container Disposal

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Product Name: Tri-Base Blue Flowable Copper Fungicide

Product Disposal On site disposal of the concentrated product is not acceptable.

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

U.N. Number None Allocated Proper Shipping None Allocated

Name

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 3082

Transport)

IMO Class/Packing Class 9; Packing Group III

Group

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Name (contains tribasic copper sulphate)

15. REGULATORY INFORMATION

Poisons Schedule S6
Packaging & POISON

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.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information. The MSDS is

now issued in a 16 header format.

...End Of MSDS...