

Infosafe No™ 3NUBD	Issue Date : March 2016	ISSUED by NUFARM
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Product Name **Tri-Base Blue Flowable Copper Fungicide**

Not classified as hazardous

1. Identification

GHS Product Identifier 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

Telephone/Fax Number Tel: +61 3 9282-1000
Fax: +61 3 9282-1001

Emergency phone number 1800 033 498 (24hr Australia)

Recommended use of the chemical and restrictions on 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 Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s) WARNING

Hazard Statement (s) H410 Very toxic to aquatic life with long lasting effects.

General Precautionary Statement (s) 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.

Pictogram (s) Environment,
The below pictograms are GHS Hazard symbols for workplace use only.
See SECTION 14 for Dangerous Goods information.



Other Information Poisons Schedule S6
Not classified as hazardous under the GHS criteria.

3. Composition/information on ingredients

Chemical Characterization Liquid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Copper present as tribasic copper sulphate	1344-73-6	190 g/L
	Propane-1,2-diol		80 g/L
	Other Ingredients		Balance

4. First-aid measures

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

Infosafe No™ 3NUBD	Issue Date : March 2016	ISSUED by NUFARM
--------------------	-------------------------	------------------

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Skin	Wash affected areas thoroughly with soap and water.
Eye contact	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 the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. Copper salts may be corrosive to the oesophagus. Do NOT induce vomiting. If spontaneous vomiting has occurred or is suspected, gastric intubation is contraindicated. In cases of severe intoxication, consider chelation therapy with dimercaprol (BAL).

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.
Hazards from Combustion Products	Non-combustible. May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

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 banded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.
Environmental Precautions	Use earthen bunds or absorbent bunding to prevent spreading of spillage. 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, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	Safe Work Australia has set the following exposure standard for copper (as Cu) (dusts and mists) : TLV (TWA) 1 mg/m ³ , STEL -. An exposure standard has been set for propane-1,2-diol at (TWA) 474 mg/m ³ .
Appropriate 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.

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9. Physical and chemical properties

Form	Liquid
Appearance	Greenish-blue liquid.
Solubility in Water	Disperses in water.
Specific Gravity	1.28
pH	7 (13g/L)
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

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
Ingestion	Possible symptoms of exposure of the concentrate include: vomiting, stomach pains, symptoms attributed to the central nervous system and kidneys, hemolytic crisis accompanied by damage in the liver and brain.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
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.
Serious eye damage/irritation	Not an eye irritant.
Skin corrosion/irritation	Not a skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for copper for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of - mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2014).

12. Ecological information

Known Harmful Effects on the Environment	The product is a marine pollutant for sea transport.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Spray drift should be avoided, read the label for more information.
Environmental Protection	
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 - Daphnia	EC50 (48hr) for daphnia magna is 0.61 mg/l.

Infosafe No™ 3NUBD	Issue Date : March 2016	ISSUED by NUFARM
--------------------	-------------------------	------------------

Product Name **Tri-Base Blue Flowable Copper Fungicide**

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Acute Toxicity - Algae	EC50 (72hr) for <i>Scenedesmus subspicatus</i> >100 mg/l.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for Japanese quail is 1428 mg/kg Not toxic to bees.

13. Disposal considerations

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 (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. 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. 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. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

Transport Information Storage and Transport	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
UN Number (Sea Transport)	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 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

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 53568.

16. Other Information

Date of preparation or last revision of SDS	Reviewed 07/03/2016. This SDS replaces document dated April 2011.
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000



Safety Data Sheet

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CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUBD	Issue Date : March 2016	ISSUED by NUFARM
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**Revisions
Highlighted**

After Hours: Shift Supervisor Phone: 1800 033 498
The SDS was reviewed to include GHS requirements.

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