

Infosafe No™ 3NUZ6	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **Fortress 500 Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Fortress 500 Fungicide
Product Code	5123
Product Type	Group 2 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 the control of certain fungal diseases on various crops 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	TR1 Toxic to Reproduction: Category 1 SE-1 STOT Single Exposure Category 1 RE2 STOT Repeated Exposure Category 2 ED2A Eye Damage/Irritation: Category 2A SC-2 Skin Corrosion/Irritation: Category 2 AC2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H360 May damage fertility or the unborn child. H370 Causes damage to organs. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H315 Causes skin irritation. H411 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)	Health hazard, Environment, Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
Other Information	Poisons Schedule S7 DANGEROUS POISON

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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Procymidone	32809-16-8	500 g/L
	Other ingredients (non-hazardous)		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 vomiting occurs, give more water to drink to assist dilution. Seek medical advice immediately.
Skin	Remove contaminated clothing and launder before re-use. 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.

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 toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
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. On-site disposal of concentrate is not acceptable.
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.

7. Handling and storage

Precautions for Safe Handling	Women of child bearing age should avoid contact with procymidone. Seed treated with this product must not be used for animal or human consumption or be allowed to contaminate seed intended for animal or human consumption.
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. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Store in a locked enclosure. Treated seed, when stored, should be kept apart from other seed. The containers should be clearly marked to indicate the contents have been treated with this product.

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Other Information Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective 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 and disposable mist mask. Re-entry Period - Do not allow entry into treated areas for 9 days after treatment. When prior entry is necessary, wear all protective clothing and chemical resistant gloves. Read the label for any other instructions.
Hygiene Measures	Re-entry - (grapes only) - grape girdling should not be performed 24 days after spray application unless wearing cotton overalls buttons to the neck and wrist (or equivalent clothing), chemical resistant gloves and boots. Clothing must be laundered after each day's use. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Requirements Concerning Special Training	After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	Opaque white liquid
Odour	Solvent odour
Solubility in Water	Disperses in water.
Specific Gravity	1.18
pH	6.5 - 7.5 (neat)
Vapour Pressure	18 mPa @ 25°C for procymidone
Volatile Component	~40%
Partition Coefficient: n-octanol/water	Kow Log P is 3.14 for procymidone
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Avoid contact with alkaline materials.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 6800 mg/kg for procymidone
Acute Toxicity - Dermal	LD50 (rat) >2500 mg/kg for procymidone
Acute Toxicity - Inhalation	LC50 (rat) >1.5 mg/l
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing large amounts of concentrate may cause nausea and vomiting.
Inhalation	May cause irritation to the respiratory tract.

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Skin	Will irritate the skin.
Eye	This product is a severe eye irritant.
Skin Sensitisation	Product is not a skin sensitiser.
Reproductive Toxicity	Studies have shown that exposure to male rats in utero may result in changes to the genital organs.
Chronic Effects	Evidence from animal studies indicate that repeated or prolonged exposure to procymidone can result in damage to the liver and reproductive system.
Other Information	The Australian Acceptable Daily Intake (ADI) for procymidone for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.5 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', March 2016).

12. Ecological information

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not feed treated seed, or otherwise expose, to wildlife and domestic animals, particularly birds.
Environmental Protection	Spray drift should be avoided, read the label for more information.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 7.2 mg/l for procymidone
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia magna is 1.8 mg/l for procymidone.
Acute Toxicity - Other Organisms	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.

14. Transport information

Storage and Transport	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. For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.
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15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Poisons Schedule	S7

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Packaging & Labelling DANGEROUS 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: 52095.

16. Other Information

Date of preparation or last revision of SDS 22/06/2017

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The SDS was reviewed. Minor changes were made to the information and product has been rebranded.

...End Of MSDS...

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