

Infosafe No™ 3NUZ1	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **EMBLEM® FUNGICIDE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	EMBLEM® FUNGICIDE
<b>Product Code</b>	5196
<b>Product Type</b>	Group 29 Fungicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of white root rot in apples, club root of broccoli, brussels sprouts, cabbage, cauliflower and kohlrabi; eutypa dieback and the pre-bud burst suppression of phomopsis cane and leaf blight in grapevines, and the control of late blight and sclerotinia in potatoes as per the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	SC-2 Skin Corrosion/Irritation: Category 2 SS-1 Sensitization - Skin: Category 1 ED1 Eye Damage/Irritation: Category 1 IT 4 Acute Toxicity - Inhalation: Category 4 TR2 Toxic to Reproduction: Category 2 AA1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<b>General Precautionary Statement (s)</b>	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.
<b>Pictogram (s)</b>	Corrosion, Health hazard, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P202 Do not handle until all safety precautions have been read and understood. P264 Wash hands and exposed skin thoroughly after handling. P280 Wear protective gloves, clothing, eye and face protection. P261 Avoid breathing mist and spray. P272 Contaminated work clothing should not be allowed out of the workplace. P271 Use only outdoors or in a well-ventilated area.
<b>Precautionary statement – Response</b>	P308+P313 IF exposed or concerned: Get medical advice/attention. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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**Other Information**

Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 Poisons Schedule S6

**3. Composition/information on ingredients**

<b>Chemical</b>	Liquid		
<b>Characterization</b>			
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Fluazinam	79622-59-6	500 g/L
	Other ingredients (considered non-hazardous)		Remainder

**4. First-aid measures**

<b>Inhalation</b>	If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give a glass of water. Obtain medical advice.
<b>Skin</b>	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. Remove contaminated clothing and launder before re-use. Seek medical advice, but only after the exposed skin has been thoroughly washed.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically.

**5. Fire-fighting measures**

<b>Suitable extinguishing media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion</b>	If involved in a fire, may evolve fluorine compounds, oxides of nitrogen and hydrogen chloride.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

**6. Accidental release measures**

<b>Spills &amp; Disposal</b>	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect in sealed open top containers for disposal.
<b>Personal Precautions</b>	Avoid contact with skin and eyes.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.

**7. Handling and storage**

<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked enclosure. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

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## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standard has been established for this product.
<b>Appropriate engineering controls</b>	Use in a well ventilated area only.
<b>Personal Protective Equipment</b>	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 enter treated area until spray has dried. Read the label for more detailed information depending on use of the product.
<b>Hygiene Measures</b>	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

<b>Form</b>	Liquid
<b>Appearance</b>	Yellow Suspension
<b>Odour</b>	Odourless
<b>Boiling Point</b>	100°C (aqueous suspension)
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.27 @ 20°C
<b>pH</b>	7.11 - 7.13
<b>Viscosity</b>	6.38 mPa.s
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) >5000 mg/kg for fluazinam
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for fluazinam
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 0.463 mg/l for fluazinam
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing of large amounts may cause injury.
<b>Inhalation</b>	May cause irritation to the respiratory tract.
<b>Skin</b>	Will irritate the skin. Repeated or prolonged contact with the concentrate may lead to irritant contact dermatitis. May cause sensitisation by prolonged skin contact.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Chronic Effects</b>	Regular exposure may result in liver effects.
<b>Serious eye damage/irritation</b>	This product is a severe eye irritant.
<b>Skin corrosion/irritation</b>	May cause irritation.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for fluazinam for a human is

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0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.4 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

<b>Persistence and degradability</b>	Half life in soil is typically 4 days.
<b>Known Harmful Effects on the Environment</b>	The product is a marine pollutant for sea transport.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout is 0.11 mg/l.
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) is 0.22 mg/l.
<b>Acute Toxicity - Other Organisms</b>	LD50 for bobwhite quail is 1782 mg/kg LD50 for mallard duck is 4190 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Triple 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, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product. 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

<b>Storage and Transport</b>	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.
<b>UN Number (Sea Transport)</b>	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Fluazinam)

## 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING



# Safety Data Sheet

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**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 65082.

## 16. Other Information

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

**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions** The SDS was reviewed. Minor changes were made to the information and product  
**Highlighted** has been rebranded.  
...End Of MSDS...

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