

## EMBLEM FUNGICIDE

Infosafe No.: 3NUZ1  
ISSUED Date : 28/04/2022  
ISSUED by: NUFARM AUSTRALIA LIMITED.

### Section 1 - Identification

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**Product Identifier**

EMBLEM FUNGICIDE

**Product Code**

5196

**Product Type**

Group 29 Fungicide

**Company Name**

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

**Address**

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Victoria 3026 AUSTRALIA

**Telephone/Fax Number**

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**Emergency Phone Number**

1800 033 498 (24hr Australia)

**Emergency Contact Name**

www.nufarm.com.au

**E-mail Address**

SDSANZ@nufarm.com

**Recommended use of the chemical and restrictions on use**

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.

**Additional 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.

**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

### Section 2 - Hazard(s) Identification

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Complies with the requirements of Special Provision AU01 and therefore exempted from being classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Dangerous Goods according to International Maritime Dangerous Goods Code (IMDG) and International Air Transport Association (IATA).

Acute toxicity: Category 4 - Inhalation

Skin corrosion/irritation: Category 2

Eye damage/irritation: Category 1

Sensitisation - skin: Category 1A  
Reproductive toxicity: Category 2  
Hazardous to the Aquatic Environment - Acute Hazard: Category 1  
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

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.  
H410 Very toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Exclamation mark, Corrosion, Health hazard, Environment



**Precautionary Statement–Prevention**

P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash hands and exposed skin thoroughly after handling.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

**Precautionary Statement–Response**

P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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/doctor.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P391 Collect spillage.

**Precautionary Statement–Storage**

P405 Store locked up.

**Precautionary Statement–Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

**Section 3 - Composition and Information on Ingredients**

**Ingredients**

Name	CAS	Proportion
fluazinam (ISO)	79622-59-6	<40 %
Ingredients determined not to be hazardous		Balance

## Section 4 - First Aid Measures

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### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

### Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

### Advice to Doctor

Treat symptomatically.

### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## Section 5 - Firefighting Measures

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### Suitable Extinguishing Media

Water fog, foam, carbon dioxide or dry chemical.

### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases, including fluorine compounds, oxides of nitrogen and hydrogen chloride.

### Specific hazards arising from the chemical

This product is non combustible.

### Decomposition Temperature

Not available

### Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

This product should be prevented from entering drains and watercourses.

## Section 6 - Accidental Release Measures

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### Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## Section 7 - Handling and Storage

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### Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Avoid exposure. Do not handle until all safety precautions have been read and understood.

It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing.

**Section 8 - Exposure Controls and Personal Protection**

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**Occupational exposure limit values**

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

**Biological Monitoring**

No biological limits allocated.

**Control Banding**

Not available

**Engineering Controls**

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye and Face Protection**

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material such as elbow-length PVC gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Thermal Hazards**

No further relevant information available.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist and a washable hat are recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Suspension
Colour	Yellow	Odour	Odourless
Melting Point	Not available	Boiling Point	100°C (aqueous suspension)
Decomposition Temperature	Not available	Solubility in Water	Disperses in water.
Specific Gravity	1.27 @ 20°C	pH	7.11 - 7.13
Vapour Pressure	Not available	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	6.38 mPa.s	Volatile Component	Not available
Partition Coefficient: n-octanol/water (log value)	Not available	Flash Point	Not applicable
Flammability	Non combustible material	Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available	Flammable Limits - Upper	Not available
Particle Characteristics	Not applicable		

## Section 10 - Stability and Reactivity

### Reactivity

Based on the composition not expected to be reactive.

### Chemical Stability

Stable under normal conditions of storage and handling.

### Possibility of hazardous reactions

Not available

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Not available.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases, including fluorine compounds, oxides of nitrogen and hydrogen chloride.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Toxicology Information

No toxicity data available for this material. The available acute toxicity data for the ingredient/s is/are given below.

#### Acute Toxicity - Oral

LD50 (rat): >5000 mg/kg (fluazinam)

#### Acute Toxicity - Dermal

LD50 (rabbit): >2000 mg/kg (fluazinam)

#### Acute Toxicity - Inhalation

LC50 (rat): 0.463 mg/l/4h (fluazinam)

#### Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

### **Inhalation**

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

### **Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

May cause an allergic skin reaction.

### **Eye**

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

### **Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

May cause an allergic skin reaction.

### **Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

### **Reproductive Toxicity**

Suspected of damaging the unborn child. Classified as a suspected human developmental toxicant.

### **STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

### **STOT - Repeated Exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

### **Other Information**

The Australian Acceptable Daily Intake (ADI) for fluazinam for a human is 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: Australian Pesticides and Veterinary Medicines Authority (APVMA) March 2022)

## **Section 12 - Ecological Information**

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### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

### **Persistence and degradability**

Half life in soil is typically 4 days.

### **Mobility**

Not available

### **Bioaccumulative Potential**

Not available

### **Other Adverse Effects**

Not available

### **Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

### **Acute Toxicity - Fish**

LC50 (rainbow trout): 0.11 mg/l/96h

### **Acute Toxicity - Daphnia**

EC50 (daphnia): 0.22 mg/l/48h

### **Acute Toxicity - Other Organisms**

LD50 (bees): >100 µg/bee.

LD50 (bobwhite quail): 1782 mg/kg

LD50 (mallard duck): 4190 mg/kg

#### **Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## **Section 13 - Disposal Considerations**

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### **Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

To minimise personal exposure to the chemical, refer to Section 8—Exposure controls and personal protection.

#### **Product Disposal:**

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. On site disposal of the concentrated product is not acceptable.

#### **Container Disposal:**

Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. 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.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## **Section 14 - Transport Information**

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### **Transport Information**

#### **Road and Rail Transport (ADG Code):**

This product complies with the requirements of Special Provision AU01 and is therefore exempted from being classified as Dangerous Goods according to the ADG Code.

#### **Note: Special Provision AU01:**

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

#### **Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS: Fluazinam)

Packing Group: III

EMS : F-A, S-F

Special Provisions: 274, 335, 969

#### **Air Transport (ICAO/IATA):**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division:

UN No: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (contains: Fluazinam)

Packing Group: III

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Hazard Label: Miscellaneous

Special Provisions: A97, A158, A197, A215

#### **UN Number**

None Allocated

**Proper Shipping Name**

None Allocated

**Transport Hazard Class**

None Allocated

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

## Section 15 - Regulatory Information

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**Regulatory Information**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

S6

**Montreal Protocol**

Not listed

**Stockholm Convention**

Not listed

**Rotterdam Convention**

Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**

Not available

**Agricultural and Veterinary Chemicals Act 1994**

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

**Basel Convention**

Not available

## Section 16 - Any Other Relevant Information

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**Date of Preparation**

SDS Amended: February 2023

Section 1, Product Name and code updated

SDS Reviewed: April 2022

Supersedes: June 2017

**Version Number**

2.1

**Literature References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

Australian Pesticides and Veterinary Medicines Authority (APVMA) March 2022.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals. (7th revised edition)

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

**Contact Person/Point**

Normal hours: SDS coordinator : Phone +61 3 9282 1000

After hours: Shift supervisor : Phone 1800 033 498

**END OF SDS**

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