

Infosafe No™ 3NV5I	Issue Date : March 2022	ISSUED by NUFARM
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 Product Name **Nufarm Amishield Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	Nufarm Amishield Fungicide
Product Code	0989
Product Type	Group 21 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
Emergency phone number	1800 033 498 (24hr Australia)
E-mail Address	SDSANZ@nufarm.com
Recommended use of the chemical and restrictions on use	For control of Clubroot and suppression of Damping off in Brassicas and the control of Powdery Scab and suppression of Pink Rot in Potatoes as per the Directions for Use Table.
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	Eye Damage/Irritation: Category 2B Carcinogenicity: Category 2 Aquatic toxicity (chronic): Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H320 Causes eye irritation. H351 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement – General	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



Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P203 Obtain, read and follow all safety instructions before use. P280 Wear eye protection. P173 Avoid release to the environment.
Precautionary statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P317 If eye irritation persists: Get medical help. P318 If exposed or concerned, get medical advice. P391: Collect spillage.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Copper present as tribasic copper sulphate	12527-76-3	50 % w/w
	Other Ingredients		<=40 %
	Propane-1,2-diol	57-55-6	<10 % w/w

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4. First-aid measures

Inhalation	If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or an artificial respiration). Keep warm with blanket and keep at rest. Seek emergency medical advice.
Ingestion	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. Rinse mouth and then drink plenty of water.
Skin	Remove contaminated clothing and wash affected skin 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.

5. Fire-fighting measures

Suitable extinguishing media	Water, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Water in a jet.
Hazards from Combustion Products	Carbon dioxide, carbon monoxide, halogenated compounds and oxides of nitrogen and sulfur are potential thermal decomposed products.
Special Protective Equipment for fire fighters	In the event of fire and/or explosion do not breathe fumes. Use self-contained breathing apparatus and wear protective clothing. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

6. Accidental release measures

Spills & Disposal	Carefully sweep up and collect the spilled material using an inert absorbent material (sand, vermiculite, or sawdust) and place in a closed container for disposal. Remove (large quantities) with vacuum truck. DO not raise dust. Wash affected area with water containing detergent.
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.
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	When using do not eat or drink. Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers. Avoid contact with skin and eyes.
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 away from food, drink and animal feeding stuffs.
Other Information	Always read the label and any attached leaflet before use. Use this product only for plant protection.

8. Exposure controls/personal protection

Occupational exposure limit values	None established
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	The following personal protective equipment should be worn. Safety glasses, goggles or faceshield as appropriate. Chemically resistant gloves. Disposable dust mask.

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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	Solid - Granules
Appearance	Pale brown granular solid
Odour	Odourless
Solubility in Water	0.11 mg/L at 20 °C (amisulbrom)
Solubility in Organic Solvents	Toluene 88.6 g/L, Methanol 10.1 g/L at 20 °C (amisulbrom)
pH	5.6 in distilled water (1% w/v suspension)
Vapour Pressure	1.8 x 10 ⁻⁸ Pa at 25 °C
Volatile Component	Active ingredient is not volatile
Solubility in other solvents (kg/m³)	Log Pow (n-octano/water) = 4.4 (amisulbrom)
Relative density	0.66 g/ml (pour density), 0.71 g/ml (tap density)
Other Information	Auto-ignition temperature: 373 °C

10. Stability and reactivity

Chemical Stability	Stable at normal temperatures and storage conditions.
Conditions to Avoid	Avoid high temperatures. Protect from sunlight, open flame, sources of heat and humidity.
Incompatible Materials	May react with strong bases, acids or strong oxidizing agents such as chlorates, nitrates, peroxides.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for the formulated product
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for the formulated product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.2 mg/l (formulated product)
Skin	(rabbits): Non irritant for formulated product
Eye	(rabbits): Irritating for formulated product
Skin Sensitisation	(guinea pigs): Not skin sensitizer for formulated product.
Other Information	<p>Toxicokinetics, metabolism and distribution (amisulbrom): Rapidly absorbed (C_{max} 2-6 hr). 50% oral absorption based on biliary and urinary excretion. Rapidly distributed but, no evidence for accumulation.</p> <p>Short-term oral toxicity 90 days (amisulbrom): NOAEL (rats) 171/587 mg/kg/day (M/F)</p> <p>Short-term oral toxicity 1 year (amisulbrom): NOAEL (dogs) 100 mg/kg/day</p> <p>Short-term dermal toxicity 21 days (amisulbrom): NOAEL (rats) 300/1000 mg/kg/day (M/F)</p> <p>Chronic 1 year (amisulbrom): NOEL (rats) 11.1/14.3 mg/kg/day</p> <p>Carcinogenicity 2 years (amisulbrom): NOEL (rats) 96/129 mg/kg/day (M/F) Not carcinogenic</p> <p>Reproductive toxicity (amisulbrom): NOAEL (rats) 1200/261 mg/kg/day (Reproduction, M/F) No effects on reproduction</p> <p>Developmental toxicity (amisulbrom): NOEL (rabbits) 300 mg/kg/day Not teratogenic</p> <p>Mutagenicity (amisulbrom): Not mutagenic (Negative in in vitro & in vivo studies)</p>

12. Ecological information

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Persistence and degradability Formulated Product: Field studies with another product (containing amisulbrom) in 5 locations in EU indicate that mean DT50 was 6.9 days.
Active ingredient amisulbrom: is hydrolytically degraded, especially rapidly under alkaline condition. Amisulbrom is readily degraded in soils and water/sediment systems.

Environmental Protection

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is 0.307 mg/l (product)

Acute Toxicity - Daphnia EC50 (48hr) for daphnia magna is 0.787 mg/l (product).

Acute Toxicity - Algae ErC50 (72 hr) for P. subcapitata is >10 mg/l (product)
NOEC: 32 µg/l (product)

Acute Toxicity - Other Organisms The following is data for the active ingredient amisulbrom:
Toxicity to bird LD50 (Bobwhite quail and Mallard duck) >2000 mg/kg
Toxicity to bees LD50 (Oral/Contact, 48h, Apis mellifera) >100 µg/bee
Toxicity to earthworm LC50 (14 days, Eisenia foetidat) >1000 mg/kg of soil
Soil micro-organism : No long-term influence on nitrogen and carbon transformation (<25% effect)

Sewage Treatment No inhibitory effect

13. Disposal considerations

Waste Disposal Do not contaminate water, foodstuffs, feed or seed by disposal.

Product Disposal Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or burned in incinerator in accordance with all applicable regulations.

Container Disposal Completely empty container by shaking and tapping sides and bottom to loosen clinging particles.
Do not reuse container.
Triple rinse container, then puncture and dispose of by incineration in accordance with all applicable regulations.

14. Transport information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Storage and Transport Considered non dangerous for road and rail transport in packaging less than 500 kg (L) or IBCs by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7.7; SP No. AU01.
For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

UN Number (Sea Transport) 3077

IMO Class/Packing Group Class 9; Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains amisulbrom)

15. Regulatory information

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

Packaging & Labelling READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information APVMA product number: 88958/123025. This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

16. Other Information

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**Date of preparation
or last revision of
SDS** 31 March 2022

Contact Person/Point Normal Hours: SDS Coordinator 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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