

Infosafe No™ 3NV5I	Issue Date : November 2020	RE-ISSUED by NUFARM
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 Product Name **Nufarm Amishield 500WG Fungicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Nufarm Amishield 500WG Fungicide
<b>Product Code</b>	0989
<b>Product Type</b>	Group 21 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
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>E-mail Address</b>	SDSANZ@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	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.
<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>	Eye Damage/Irritation: Category 2B Carcinogenicity: Category 2 Aquatic toxicity (chronic): Category 1
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H320 Causes eye irritation. H351 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement – General</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>	Health hazard, Environment



<b>Precautionary statement – Prevention</b>	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.
<b>Precautionary statement – Response</b>	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.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Amisulbrom	348635-87-0	50 % w/w
	Other Ingredients		<=40 %
	Sodium diisopropyl naphthalenesulphonate	1322-93-6	<10 % w/w

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## 4. First-aid measures

<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	Remove contaminated clothing and wash affected skin with soap and water.
<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.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water, foam, carbon dioxide or dry chemical.
<b>Unsuitable Extinguishing Media</b>	Water in a jet.
<b>Hazards from Combustion Products</b>	Carbon dioxide, carbon monoxide, halogenated compounds and oxides of nitrogen and sulfur are potential thermal decomposed products.
<b>Special Protective Equipment for fire fighters</b>	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.
<b>Hazchem Code</b>	2Z

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	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.
<b>Environmental Precautions</b>	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

<b>Precautions for Safe Handling</b>	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.
<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. Keep away from food, drink and animal feeding stuffs.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Use this product only for plant protection.

## 8. Exposure controls/personal protection

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

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

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) >2000 mg/kg for the formulated product
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for the formulated product
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.2 mg/l (formulated product)
<b>Skin</b>	(rabbits): Non irritant for formulated product
<b>Eye</b>	(rabbits): Irritating for formulated product
<b>Skin Sensitisation</b>	(guinea pigs): Not skin sensitizer for formulated product.
<b>Other Information</b>	<p>Toxicokinetics, metabolism and distribution (amisulbrom): Rapidly absorbed (Cmax 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): NOEL (rats) 171/587 mg/kg/day (M/F)</p> <p>Short-term oral toxicity 1 year (amisulbrom): NOEL (dogs) 100 mg/kg/day</p> <p>Short-term dermal toxicity 21 days (amisulbrom): NOEL (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): NOEL (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 &amp; in vivo studies)</p>

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## 12. Ecological information

<b>Persistence and degradability</b>	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.
<b>Environmental Protection</b>	
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout is 0.307 mg/l (product)
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) for daphnia magna is 0.787 mg/l (product).
<b>Acute Toxicity - Algae</b>	ErC50 (72 hr) for P. subcapitata is >10 mg/l (product) NOEC: 32 µg/l (product)
<b>Acute Toxicity - Other Organisms</b>	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)
<b>Sewage Treatment</b>	No inhibitory effect

## 13. Disposal considerations

<b>Waste Disposal</b>	Do not contaminate water, foodstuffs, feed or seed by disposal.
<b>Product Disposal</b>	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.
<b>Container Disposal</b>	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

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Hazchem Code</b>	2Z
<b>Packing Group</b>	III
<b>Storage and Transport</b>	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.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains amisulbrom)

## 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Packaging &amp; Labelling</b>	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	APVMA product number: 88958/123025. This product is registered with the

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Australian Pesticides and Veterinary Medicines Authority (APVMA).

## 16. Other Information

**Date of preparation** November 2020

**or last revision of  
SDS**

**Contact Person/Point** Normal Hours: SDS Coordinator Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions  
Highlighted**

First Issue  
Now updated in line with label and issued for release.

...End Of MSDS...

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