

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



 Nufarm

Amishield®

500WG FUNGICIDE

ACTIVE CONSTITUENTS:
500 g/kg AMISULBROM

GROUP 21 FUNGICIDE

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.

 **Nufarm**
Grow a better tomorrow

DIRECTIONS FOR USE**RESTRAINTS**

DO NOT apply in potatoes if heavy rains or storms are forecast within 24 hours.

After application in potatoes, DO NOT irrigate to the point of runoff (irrigation water leaving the treated paddock) for at least 24 hours after application.

Seedling Drench:

Crop	Pathogen	Use rate	Critical comments
Brassica vegetables including: Broccoli Cauliflower Cabbage Brussels sprouts	Clubroot (<i>Plasmodiophora brassicae</i>) Damping Off (<i>Pythium</i> spp. & <i>Phytophthora</i> spp.) (suppression)	20 – 40 g /1000 plants	Apply as a spray to the seedling trays prior to planting. Use in 2.5 L of water/1000 plants to ensure thorough drenching of root ball but not to cause run-off of the product from the seedling cell (Some adjustment to water rate may be required depending on the seedling cell size). Use higher rate on more susceptible varieties or on crops which take longer than 8 weeks to grow. If watering is required between application and transplanting, it should be done sparingly, only as required.

In-Furrow:

Crop	Pathogen	Use rate	Critical comments
Potatoes	Powdery Scab (<i>Spongospora subterranea</i>) Pink Rot (<i>Phytophthora erythroseptica</i>) (suppression)	20 – 25 g/100 m of row	Apply at planting into the open furrow as seed piece is placed into furrow. Use in 2 – 3 L of water/100 m of row, to ensure adequate coverage of the entire width of the furrow. Amishield is non-systemic within the plant and non-mobile in the soil, it's application will create a zone of control within the furrow around the developing roots and tubers. Tubers and roots growing outside this zone will not be protected.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Amishield is an oomycetes specific fungicide. It is non-systemic within the plant and non-mobile in the soil. Coverage/even distribution is critical to achieve effective control of pathogens. The placement of Amishield within the soil creates a zone of protection, where control of disease within this zone is attained. Any plant part growing outside of this zone will still be prone to disease infection. Plant health benefits in the form of increased leaf greenness and increased foliar growth are often seen in Brassica vegetables from the application as a seedling drench.

MIXING/APPLICATION

Partly fill the spray tank with water and add the required amount of product while stirring. If required, add compatible products and agitate thoroughly. Continue agitation as filling of the tank is completed. Agitate again before spraying commences. If tank mixing with other water dispersible granule (WG) or wettable powder (WP) formulations, ensure they are mixed in well before adding emulsifiable concentrate (EC) or suspension concentrate (SC) products. WP formulations should be pre-mixed separately prior to adding to the spray tank.

WETTING AGENTS

A wetting agent is not required when used as directed but may be used if required for a tank mix partner.

COMPATIBILITY

Amishield is generally compatible with other agricultural pesticides but should be tested locally on a small scale prior to widespread use.

BRASSICA VEGETABLES

Mitigation of Clubroot infection should include crop rotation, soil pH, soil temperature, soil drainage and variety susceptibility. Application to the seedling tray will create a protection zone from Clubroot and Damping off around the plug, any growth outside the plug zone will not be protected. Amishield can be applied by nursery equipment or through other dedicated spray equipment. The plug zone protection will ensure the development of finer feeder roots and a tap root which is essential to ensure plant vigour and health during periods of stress.

Thorough wetting of the seedling plug is essential for maximum effectiveness. To achieve thorough coverage:

1. Water volumes need to match the water holding capacity of the cells and to not cause run-off.
2. The configuration of the drencher may need to be altered for different sized seedling cells and tray sizes. The coverage provided by the drencher should be checked prior to each application and adjusted if necessary. This should only be done with water.

Damping-Off of brassicas can be a multi-species disease complex. Amishield will only have activity on the oomycetes pathogens (*Phytophthora* and *Pythium*). Amishield will not control infections of non-oomycetes damping-off pathogens such as *Fusarium* or *Rhizoctonia*. The management of *Pythium* and *phytophthora* should include crop rotations, soil drainage, soil pH, irrigation and fertiliser scheduling, sterilisation of planting tools and a clean water source for irrigation.

Following transplanting of Amishield treated seedlings, ensure that Amicus Blue (which also contains the active constituent – amisulbrom) is **NOT** used as the first protectant fungicide within foliar disease management strategies. After a protectant fungicide from a different activity group is applied, Amicus Blue can be used in accordance with label directions. Note that the use of Amishield counts towards the total number of Amisulbrom applications allowed per crop (so only two in-crop applications of Amicus Blue are permitted).

POTATOES

Mitigation of Powdery Scab infection should include considerations of crop rotation, Predicta Pt soil testing, seed testing and variety susceptibility.

Amishield is applied as an in-furrow spray at planting with even coverage across the furrows width. Planters with a more than one nozzle are preferred with the first nozzle at the front of the planter to spray as the furrow is opened just prior to seed piece placement and the second nozzle at the rear of the planter to treat the seed piece and the surrounding soil as the furrow is closed. Correct positioning of the nozzles should achieve an even mix of Amishield through the mound to create a zone of protection.

FUNGICIDE RESISTANCE WARNING

GROUP	21	FUNGICIDE
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For fungicide resistance management Amishield Fungicide is a Group 21 fungicide. Some naturally-occurring individual fungi resistant to Amishield Fungicide and other Group 21 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. The resistant fungi will not be controlled by Amishield Fungicide and other Group 21 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Amishield Fungicide to control resistant fungi.

Stewardship of amisulbrom is important for resistance management of diseases and fungal pathogens. Three applications of a Group 21 fungicide are allowed under the CropLife Fungicide Resistance Management Strategies for broccoli and cauliflower. This use as a seedling drench on brassica vegetables counts towards the total number of applications allowed per crop.

The delay in the development of resistance can be assisted by implementing an Integrated Disease Management plan to the overall disease strategy. Consult local advisors on specific crop and disease cultural practices that are known to reduce the disease development and effective fungicide use and timing to coincide with key environmental conditions for disease development.

RE-ENTRY PERIOD

DO NOT enter treated areas until the spray has dried. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. **DO NOT** contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. 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 to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm 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.

SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with eyes. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use wash contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

TBC

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

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