

# Amishield®

A fungicidal seedling drench for the control of club root in vegetable and leafy vegetable brassicas.



Pack Sizes Available

3KG

## Active ingredient

500g/kg amisulbrom

## Formulation

Water dispersible granule

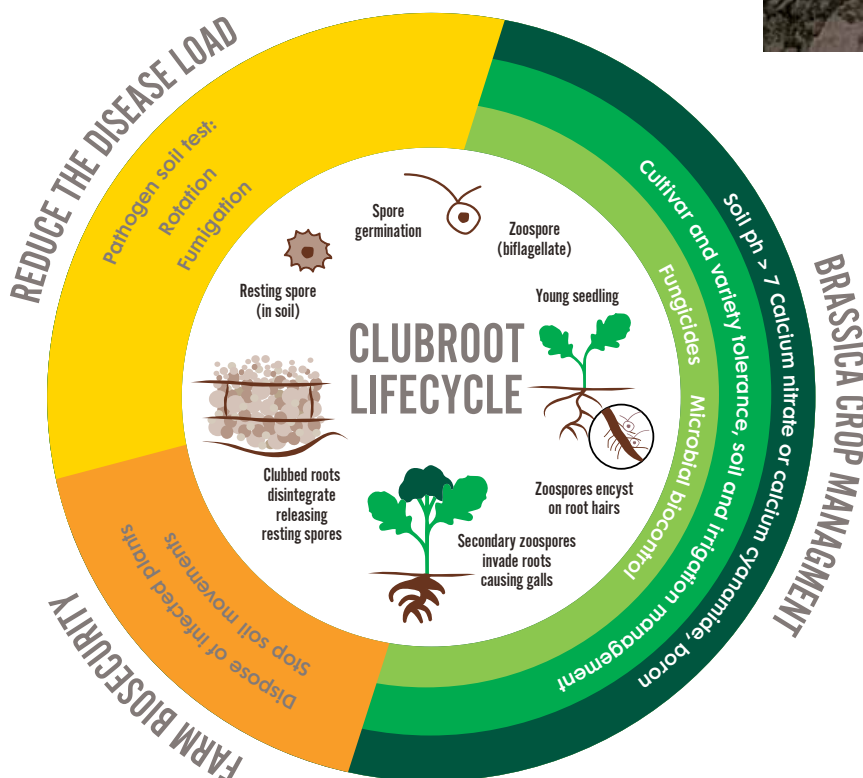
## The problem

Clubroot, caused by the protozoan *Plasmodiophora brassicae*, is a serious disease in all brassica growing areas. It reduces marketable yield and sometimes destroys the crop. A wide range of brassica vegetable crops, brassica weeds (eg wild radish) and crucifer crops (eg mustard) are susceptible.

Clubroot can survive as a resting spore in soil for up to 20 years. When conditions are right these spores germinate into motile zoospores which seek out the root hairs of brassica plants. They multiply and cause the roots to "club". Infected plants have limited ability to absorb water and nutrients.

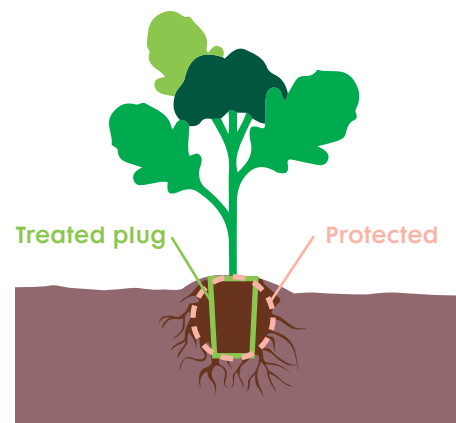
## Conditions which favour clubroot

- Paddocks that have grown a brassica crop in the last two years
- Growing a highly susceptible brassica eg cabbage
- Warm soil temperatures (17-25°C)
- Poorly drained, compacted or acidic soils (pH<6)
- Following a crucifer cover crop e.g. mustard
- Using an ammonium-based fertiliser

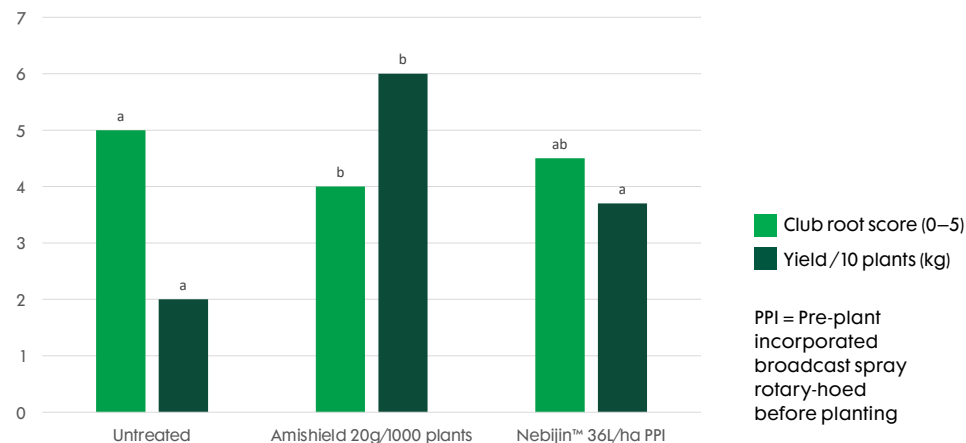


## Features and benefits of Amishield

- Excellent protection of the developing seedling, which generally results in a significant growth and yield response.
- Amishield is a contact and protectant fungicide with strong anti-sporulation activity.
- Kills zoospores.
- Easily applied in the nursery or on-farm before transplanting.
- Can be applied in tank mixture with an insecticide.
- Belongs to the FRAC Group 21 Quinone inside inhibitors (QII), a new mode of action for the control of clubroot.



## NZ field trial results: Trial No. NUNZ1411, Pak Choy, Pukekohe



LHS: Broccoli RHS: Pak Choy

## Use directions (read the full label before use)

Amishield has little systemic activity and little soil movement. An application of Amishield as a seedling drench prior to planting out can give good control of clubroot within the treated root zone.

Roots developing outside the treated zone or even within the zone over a longer period of time may develop galling. The protection given by the seedling drench is generally reflected in an improvement in crop yield.

Under severe disease pressure some crops may not develop to their full extent, especially those that require 2-3 months or more to reach maturity. Under such conditions, additional disease control measures such as a broadcast, soil incorporated fungicide with a different mode of action against clubroot may be required.

Crop	Disease	Rate/1000 plants	Notes
Vegetable and leafy brassicas	Clubroot	20g in approximately 2.5L of water	Apply as a drench to the seedlings within 48 hours prior to transplanting.

## Withholding period

Do not apply after planting out.

The information contained is a quick reference only. Always consult the product label before use.

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