

# AmyProtec® 42

Reg. No. L10665, Act No. 36 of 1947

GROUP BM02 BACTERICIDE

READ THE LABEL BEFORE USE  
KEEP OUT OF REACH OF CHILDREN & ANIMALS

A biological bactericide for the reduction of *Erwinia* spp. causing bacterial soft rot and Black leg on potatoes.



**Active Ingredient:** *Bacillus amyloliquefaciens* strain FZB42  
(min.  $2.5 \times 10^{10}$  spores per ml).

Not classified as hazardous according to GHS.

 **Andermatt**  
Madumbi

BIO DISEASE MANAGEMENT

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**MANUFACTURED BY:**  
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Country of Origin: Germany  
AmyProtec® 42 is a Registered  
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## PRECAUTIONS

Wear protective gloves/protective clothing/eye protection.	IF INHALED: Remove person to fresh air, keep comfortable, and monitor breathing. Get medical help if the person feels unwell.
In case of inadequate ventilation, wear respiratory protection.	
Do not eat, drink, or smoke when using this product.	Contaminated work clothing should not be allowed out of the workplace.
Wash hands and face thoroughly after handling.	Dispose of contents and/or container in accordance with regulations.
Avoid inhaling mist or spray.	
IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical help.	

- Avoid direct contact with eyes. In case of accidental contact immediately flush eyes with clean water.
- Prevent contamination of food, foodstuffs, drinking water and eating utensils.
- Clean applicator before and after use. Do not contaminate other crops, grazing, rivers, dams, and areas not under treatment with water used for rinsing the equipment.
- Store in original container in a dry area, away from food and feed stuffs.
- Use as soon as possible after sealed container is opened.
- Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume filled with fresh water and pour the rinsing water into the spray or mixing tank. Puncture the triple-rinsed container and dispose via an Approved Collector or Recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties who may use it as a receptacle for food or beverages.

## RELEVANT SUBSTANCES

Ingredient	CAS Number	%
<i>Bacillus amyloliquefaciens</i> strain FZB42	N/A	50 ( $> 2.5 \times 10^{12}$ spores /100 ml)
Non-hazardous co-formulants	%	50

## FIRST AID

**Eye contact:** Most important acute symptoms/effects: eye irritation or redness may occur. IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help.  
**Skin contact:** Most important acute symptoms/effects: skin irritation, redness or rash may occur. IF ON SKIN: Wash with plenty of water. Soap may be used. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs, get medical help.  
**Inhalation:** Most important acute symptoms/effects: irritation of the upper airway and coughing may occur. IF INHALED: Remove person to fresh air, keep comfortable, and monitor breathing. Get medical help if the person feels unwell.  
**Ingestion:** Most important acute symptoms/effects: no symptoms or effects are known. IF SWALLOWED: Rinse mouth with water for several minutes. Get medical help if the person feels unwell.

## RESISTANCE WARNING STATEMENT

AmyProtec® 42 is a Group BM02 Bactericide. Currently there is no known resistance to AmyProtec® 42 or the biological active.

## DISCLAIMER

Although this remedy has been extensively tested under a large variety of conditions, the Registration Holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label as well as by the methods, time, and accuracy of application. The Registration Holder, furthermore, does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animals, the lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of registration. Please consult the Supplier in the event of any uncertainty.

## MODE OF ACTION

AmyProtec® 42 is a concentrated liquid formulation of *Bacillus amyloliquefaciens* strain FZB42, a non-pathogenic microorganism occurring naturally in the soil.

When applied to plant roots and tubers, these bacteria quickly colonise the rhizosphere, roots and tubers, forming a protective biofilm in which other bacteria and fungi cannot survive. Plant pathogens are therefore outcompeted and unable to infect and proliferate in plant tissues.

## USE RESTRICTIONS

AmyProtec® 42 does not impose any risk of residues on harvested crops.

## DIRECTIONS FOR USE - Use only as directed

- Shake bottle well before use.
- Pour required volume of product into 1L of water and mix well.
- Add premix to the application tank and apply immediately.
- If possible, application mix should be agitated or stirred during application.
- Use within 8 hours of mixing.
- Close the lid of the bottle firmly after the seal is broken and store leftover product in refrigerator. Do not keep opened product for extended periods.
- Take note of and use before expiry date.

## COMPATIBILITY

- Compatibility with chemical products is not assured.
- Do not mix with chemicals unless the supplier has confirmed compatibility.
- Do not mix in container that have previously been used for toxic substances.

## IMPORTANT POINTS TO REMEMBER

- Apply to moist soil as close as possible to the root zone.
- Avoid use in conditions when soil temperature is below 10°C.
- Do not leave product or mixture standing in the sun.
- This formulation is intended for soil application and is not recommended for use as a foliar application.

## REGISTERED USAGES

Crop/Pest	Rates and Volume	Remarks
Potatoes <i>Erwinia</i> spp.	Apply 500 ml/ha	<b>Application timing and intervals:</b> <ul style="list-style-type: none"><li>• 1<sup>st</sup> AmyProtec® 42 application in furrow at planting or alternatively, as a drench immediately after planting.</li><li>• 2<sup>nd</sup> AmyProtec® 42 application 4 weeks after first application, as a soil drench.</li><li>• 3<sup>rd</sup> AmyProtec® 42 application 8 weeks after first application, as a soil drench.</li></ul> <p>Under conditions that are particularly favourable to the disease, or in soil known to have a history of disease, additional applications of AmyProtec® 42 may be done at 12 and 16 weeks after the first application.</p> <b>NOTE:</b> Product should be applied to ensure maximum infiltration into the root zone. In dry conditions it may be necessary to irrigate before and/or after application.

See pack for details  
Batch No.:  
Date of Manufacture:  
Expiry Date: 24 months from date of manufacture.  
UN No.: Not relevant  
Pack Size:



## WARNINGS

- Contains *Bacillus amyloliquefaciens* strain FZB42.
- Microorganisms may have the potential to provoke sensitising reactions.
- Use respiratory protection when spraying.
- May irritate skin and eyes.
- The active ingredient in AmyProtec® 42 is a living bacterial organism. Avoid exposure to high temperatures and UV.
- Do not leave product or mixture standing in the sun.
- Store in a cool dry place. AmyProtec® 42 is stable for up to 24 months at temperatures below 25°C.
- Refrigerate open containers and use product as soon as possible. Do not freeze.
- Take note of and use before expiry date. AmyProtec® 42 has been proven to reduce *Erwinia* spp. commercially, and it is recommended that AmyProtec® 42 be part of an IPM programme to optimise efficacy.