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New

based on the bacterium *Bacillus amyloliquefaciens* 133 (VKPM B-11986), titer no less 10^9 CFU/ml

Microbiological fungicide for the protection of vegetable and berry crops and potatoes from fungal and bacterial infections during the growing season and at pre-storage.

Advantages:

- Unique, patented bacterial strain with high fungicidal and bactericidal activity against a wide range of phytopathogenic microorganisms
- Easily integrated into conventional crop protection systems, reducing pesticide load on crops
- Reduces yield losses in vegetables and potatoes caused by storage rot
- Ecologically safe for humans and the environment, part of the EcoPlus product line
- No waiting period required
- Extended shelf life

Action

Mode of action

Strain 133 (VKPM B-11986) of the bacterium *Bacillus amyloliquefaciens* secretes various antibiotic substances into the substrate that inhibit the development of phytopathogenic microorganisms, as well as a complex of enzymes that break down fungal cell walls.

Speed of action

The bacterium *Bacillus amyloliquefaciens* begins to exhibit fungicidal activity within 2–4 hours after treatment.

Protective effect period

The product remains active throughout the entire growing season.
When applied pre-storage, the product remains active during the entire storage period.

Compatibility with other products

Not compatible with chemical products. Compatible with microbial fertilizers. Co-application with other products during storage is not advisable.

Usage regulations

Crop	Harmful object	Application rate, L/ha, t	Working solution application rate, L/ha, t	Method, time of treatment, application features	Safety interval (number of applications)
Treatment during the growing season					

Field tomatoes	Powdery mildew, phytophthora, Alternaria, bacterial diseases	3–5	200–400	Spraying during the growing season at 10–14-day intervals	- (4)
Greenhouse tomatoes	Gray mold	3–5	1000–1500	Spraying during the growing season at 10–14-day intervals	
Cabbage, including head cabbage, Napa cabbage, Chinese cabbage, kohlrabi, and cauliflower	Sclerotinia (white mold), Alternaria, storage rots, slimy and vascular bacteriosis, phomosis	3–5	200–400	Spraying during the growing season, the last application 10 days before harvest	
Onion (including for greens), garlic	Downy mildew, purple blotch	3–5	200–400	Spraying during the growing season at 10–14-day intervals	
Plum, sour cherry, sweet cherry, cherry plum	Shot hole (Clasterosporium), leaf curl, coccomycosis, monilial blight, monilial fruit rot, gray mold	3–5	600–800	Spraying during the growing season, the last application 10 days before harvest	
Strawberry	Gray mold, powdery mildew, Septoria leaf spot	3–5	600–800		

Potato	Anthracnose, Alternaria, late blight	1–3	100–300	In-furrow application at planting	
		3–5	200–400	Spraying during the growing season at 10–14-day intervals	
Pre-storage treatment					
Cabbage	Storage rots: gray mold, Fusarium rot, Alternaria, Rhizoctonia, white mold, moldy rot, bacterial soft rot	1–3	4–6	Pre-storage treatment	-(1)
Carrot	Storage rots: white mold (Sclerotinia), gray mold, black rot (Alternaria), dry rot (phomosis), moldy rot, bacterial soft rot	1–3	4–6		
Potato	Storage rots: phomosis, Fusarium dry rot, Alternaria, anthracnose, common scab, silver scurf, black rot, moldy rot, bacterial soft rot	1–3	4–6		
Onion (including for greens), garlic	Storage rots: basal rot (Fusarium), gray neck rot, moldy rot, bacterial soft rot	1–3	4–6		

Table beet	Storage rots: gray mold, white mold, phomosis, moldy rot, bacterial soft rot	1–3	4–6
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Method for preparing working solutions

The working solution is prepared by diluting the product with water. Non-chlorinated water should be used to prepare the working solution. Fill the container with water to ½ of its volume, then with the mixing device turned on (stirring), add the required amount of the product, add water to the calculated volume, and mix. After opening the package, the product and the prepared working solution should be used on the day of treatment or spraying.

It is not recommended to apply foliar treatments during hot, sunny weather.

Plants are sprayed with fungicide using any commercially available sprayers.

General information

Formulation

liquid

Hazard class

hazard class 3, moderately hazardous substance

Shelf life

24 months

Storage temperature range

+4°C to +25°C

Packaging

10 L

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia