

Beludzhi, SC

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New

suspension concentrate

450 g/l of chlorothalonil + 30 g/l of boscalid

It is a highly effective fungicide with a therapeutic and preventive effect for controlling potato diseases

Advantages:

- This fungicide, which has no analogues in terms of the combination of active ingredients, has contact and systemic activity.
- It provides high efficiency with pronounced protective properties against a wide range of pathogens.
- The level of control of all types of potato Alternaria is high.
- The risk of resistance is minimized through various mechanisms of action.
- It can be used during irrigation due to its excellent resistance to flushing

Action

Mode of action

The active ingredients of the Beludzhi fungicide, SC belong to different chemical groups and have different mechanisms of action on pathogens. Chlorothalonil belongs to the chemical group of chloronitriles (FRAC M, Group M5), which inhibit the germination of conidia and spores due to their multisite activity. The mechanism of action on the fungal cell is nonspecific; it binds the thiol groups of peptides, proteins, and amino acids, disrupting the functions of the cells' respiratory and glycolytic enzymes, preventing the pathogen from entering the plant.

Boscalid belongs to the chemical group of pyridinecarboxamides (FRAC C2, Group 7) and has a new, unique mechanism of action on a wide range of pathogens. During treatment, one part of the active substance remains on the plant surface, while the other part penetrates and spreads translaminally, and then spreads acropetally through the leaf vascular system. The mechanism of action of boscalid is to inhibit succinate dehydrogenase (SDHI) in the mitochondrial electron transport chain. Boscalid blocks a key step in cell respiration in Complex II, disrupting the energy supply of pathogens. Boscalid inhibits spore germination, the growth of germ tubes, and the formation of appressoria. In some fungi, it also affects the development of mycelium and spores.

Speed of action

Due to its anti-sporulating effect on germinating spores, the solution acts immediately after application, and the mycelium of pathogens inside plant tissues dies within 1-3 hours after treatment.

Protective effect period

Up to 14 days, depending on the infectious load, weather conditions, and other factors.

Usage regulations

Crop	Harmful object	Product consumption rate, l/ha	Consumption rates of working solution, l/ha	Method, time, features of application	Number of applications

Potato	Late blight and Alternaria blight	2.0-2.3	200-400	Spraying during the growing season: 1st - when the first signs of the disease appear, subsequent ones - at intervals of 10-14 days	21(3)
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General information

Chemical class

chloronitriles, carboxamides

Storage conditions

Keep the preparation in a room dedicated for pesticide storage. Temperature range is minus 15 °C to plus 35 °C. Stir before use.

Formulation

suspension concentrate

Hazard class

hazard class 2, highly hazardous substance

Shelf life

2 years.

Packing

10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia