

Kagatnik, SL

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soluble concentrate, soluble liquid

benzoic acid 300 g/l

Fungicide with an exceptional physiological effect that prevents mass losses of sugar beetroot crops and potato tubers from decay at the storage facilities and in the field.

Advantages:

Sugar beet vegetation:

- Prevents the spread and development of fungal and bacterial infections in crops and on the roots
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- Stops the development of decay processes in the field and contributes to the drying of the damaged areas of root crops
- Increases the sugar accumulation in root crops by activating the outflow of assimilates from leaves
- Helps to obtain healthy root crops with excellent storability in piles

During storage:

- Effective and environmentally safe way to protect sugar beetroot crops and potato tubers from storage decay
- Long-term protective period of 90–120 days
- Reduction of rot mass and reduction of losses in root crops and tubers during storage

Action

Mode of action

The product has a strong inhibitory action on yeasts, bacteria, and mold fungi; it suppresses the activity of enzymes in cells that drive oxidation-reduction reactions as well as sugar-splitting enzymes.

Protective effect period

Has a long-term protective effect.

Rate of exposure

The product is effective immediately after treatment.

Usage regulations

Crop / object of treatment	Harmful object	Preparation consumption rate, l/ha / l/t	Mix consumption rate, l/ha / l/t	Method, time and conditions of application. Application time for manual (machinery assisted) operations	Wait time (application frequency)
Sugar beet	Storage rots	0.06 l/t	3	Treatment of root crops before piling for storage -(-)	-(1)
	Root and storage rots	2.0 l/ha	300	Treatment of plants 2-4 weeks before cropping -(3)	
Potato	Fusarium blight, soft rot, Phoma rot	0.25-0.4 l/t	up to 10	Treatment of potato tubers before storage -(-)	
	Rhizoctonia blight, Fusarium blight	0.5-0.8 l/t		Treatment of potato tubers before planting -(-)	

Application technique

Prepare the working solution immediately before use and use it on the day of preparation.

Fill the sprayer tank or tank of the unit supplying the working solution to piles with water to 1/2, start the stirrer, add the full dose of the product, and add the remaining water. Flush the product container with water several times and pour the flushing water into the sprayer tank. Mix the entire volume thoroughly.

Prepare the working solution and refill the sprayer at designated filling places in tanks equipped with mechanical stirrers that are to be deactivated later.

Treatment of crops by vegetation period

Prepare the working solution immediately before use and use it on the day of preparation.

Fill the sprayer tank with water to 1/2, start the stirrer, add the full dose of the product at the rate of L/ha of the product per 300L/ha of the working solution, and add the remaining water. Flush the product container with water several times and pour the flushing water into the sprayer tank. Mix the entire volume thoroughly.

Prepare the working solution and refill the sprayer at designated filling places in tanks equipped with mechanical stirrers that are to be deactivated later. During treatment of sugar beet crops by vegetation period, use commercially available ground boom sprayers intended for the application of fungicides.

Treatment of sugar beet root crops before storing in piles

Fill the tank of the unit supplying the working solution with water to 1/2, start the stirrer, add the full dose of the product at the rate of 0.06L/t of the product per 3L/t of the working solution, and add the remaining water. Flush the product container with water several times and pour the flushing water into the sprayer tank. Mix the entire volume thoroughly.

Prepare the working solution and refill the unit at designated places for filling in tanks equipped with mechanical stirrers that are to be deactivated later.

Option 1: Sugar beetroot crops are unloaded and stacked in piles by a stacker of the BUM-65M type equipped with a unit for root crop treatment. The unit consists of a collector ring 1.3 m in diameter with 4 nozzles. The ring is fixed to the stacker arm at an angle of 40 degrees at a distance from the arm end equal to 1m.

It includes spray tips (three through-type and one end-type with a shut-off device that are placed inside the ring facing each other) and nozzles of various types (cone-shaped, injecting, flat-jet).

Under windy conditions, it is necessary to use injecting spray tips. Flat-jet spray tips are used if root crops are mixed with remains of tops, etc. In other cases, cone-shaped spray tips are used.

At a predetermined flow rate of the working solution 3L/t of root crops, the pressure should be within the range of 2–2.2bars. The working solution is supplied through the sprayer that should be equipped with a stirrer.

Option 2: Sugar beetroot crops are unloaded and stacked in piles by a loader of the ROPAEuroMaus-3 type equipped with a 300L plant having pipes with six spray tips for wetting shafts with water solution in the feed chamber (with two flat and two injecting nozzles) and after-cleaning chamber (with two injecting nozzles). The solution is distributed uniformly on the root crop surface. Every root crop is turning over on the shafts of the feed chamber and after-cleaning chamber. The system pressure is maintained at a constant level. The solution is stirred constantly in the tank. Thus, the product application is fairly high quality and uniform.

For surface treatment of potato tubers before storage

Potatoes are discharged in the hopper and supplied to the stacker by a conveyor. Before potatoes enter the stacker, they undergo treatment with the mixed solution when moving on the conveyor, then they enter the stacker for storage.

The sprayer unit is equipped with a tank of capacity up to 350 liters and two rotating nozzles (the distance between nozzles is from 5 to 6m). Fill the sprayer tank with water to 2/3, add the full dose of the product, add the remaining water, and treat the potatoes.

For surface treatment of potato tubers before planting

Pretreatment of potato tubers is carried out using pickling machines of the Gremmy type or similar.

Probability of resistance

None

General information

Transport and storage conditions

Comply with all conventional rules of toxic substance transport.

Keep the preparation in a room dedicated for pesticide storage. Storage temperature range - minus 10 °C to plus 35 °C. Stir before use.

Shelf life

5 years

Hazard class

Hazard class 3, moderate hazard.

Packing

10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schlkoovo Agrohim, Russia