



Beretto, OD

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oil dispersion

bifenthrin 60 g/L + thiamethoxam 40 g/L + alpha-cypermethrin 30 g/L

Highly effective three-component insecticide, oil formulation, for control of especially harmful pests of cereal crops, potato, rapeseed, and sugar beet.

Advantages:

- A new combination of three active ingredients in a highly effective oil formulation
- Strong synergism of active components: toxic effect on various stages of nerve impulse transmission of an insect
- Several mode of action: systemic, contact enteric, translaminar, and repellent
- Strong knockdown effect and long-term protection (up to 35 days) even during mass reproduction periods
- Control of the widest spectrum of the most harmful pests, including diamondback moth, snout beetle, rapeseed beetle, etc.
- Effective impact on hiding pests and pests living on the back of the leaf
- Triple toxic effect for the elimination of resistant populations

Action

Mode of action

Alpha-cypermethrin has an acute contact enteric action with a rapid initial and long-term residual toxic effect, as well as knockdown effect. Is one of the active substances with the highest activity among pyrethroids. Protective effect period up to 15-20 days.

Both pyrethroids affect the nervous system by blocking sodium channels and impairing the permeability of cell membranes. This results in death of insects, including those with resistance to pyrethroids.

Bifenthrin has an acute contact enteric action. It effectively inhibits the development of pests, including Coleoptera, Orthoptera, Diptera, and Lepidoptera orders, as well as some mites. Has repellent properties. Has a longer residual effect: the protective effect period lasts up to 20-30 days.

Thiamethoxam has a systemic and contact enteric action with translaminar activity. It is effective against hiding pests and pests feeding on the back of the leaf.

The active ingredient is rapidly absorbed by the plant and moves along the xylem to the untreated parts of plants affecting the nicotinic acetylcholine receptors of the nervous system of insects.

A combination of three active ingredients allows control of the widest spectrum of pests, ensuring long-term results by means of systemic effects, translaminar effect, and contact enteric action. In total, the protective effect period lasts up to 35 days.

Strong synergism of components is ensured by the impact on insects on various stages of nerve impulse transmission.

Is highly effective against resistant insect races.

Oil formulation ensures improved lipophilic properties of the active ingredient. The product is fixed perfectly on the body of an insect, which ensures an improved contact action. The product shows better adherence to leaves of plants and uniform distribution along the surface, thus fully exhibiting the translaminar effect and retaining protective properties for a longer period.

Protective effect period

Not less than 14 days

Rate of exposure

High

Usage regulations

Crop	Harmful object	Consumption rates of preparation, l/ha	Consumption rates of working liquid, l/ha	Method, treatment time, and application features	Safety intervals (treatment frequency)
Spring and winter wheat	Scarab beetles, sunn pest, aphids, Lema beetles, corn flies, thrips	0.3	200-300	Treatment in the growing period	28(2)
Winter wheat	Ground beetle	0.4	100-200	Treatment in the sprouting period	28(1)
Spring and winter barley	Aphids, Lema beetles, corn flies, thrips	0.4	200-300	Treatment in the growing period	28(2)
Potato	Colorado beetle	0.4	200-400	Treatment in the growing period	30(2)
Spring and winter rapeseed	Crucifer flea beetles	0.3-0.4	100-200	Treatment in the sprouting period	28(2)

Turnip sawfly, rapeseed beetle, cabbage seedpod weevil, diamondback moth	200-300			Treatment in the growing period	
Sugar beet	Beet flea beetles, weevils and cut worms	0.3-0.4	100-200	Treatment in the sprouting period	20(2)
	Sod webworm, aphid, beet stalk borer, mining flies, spider mites		200-400	Treatment in the growing period	

Phytotoxicity

The product is not phytotoxic if used in the recommended consumption rates.

General information

Chemical class

pyrethroids, neonicotinoids

Storage conditions

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

Shelf life

3 years

Packing

5 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia