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Espero, SC

suspension concentrate

imidacloprid 200 g/l + alpha-cypermethrin 120 g/l

A highly effective combined insecticide with a long-term protective period for reliable control of different types of pests in a broad range of crops.

Advantages:

— Systemic activity and acute contact enteric effect to achieve results quickly

— Reliable control of hiding, sucking, and leaf-eating insects throughout the period of harmfulness

— Elimination of highly hazardous pests, including brown marmorated stink bug, ground beetle, sod webworm, polyphagous cutworms, moth, and others

— Highly effective during mass reproduction periods of harmful insects

— A double toxic effect for the elimination of resistant populations

— Aerial application to treat large areas in a short time

Action

Mode of action

Imidacloprid blocks the postsynaptic nicotine-energy receptors of the nervous system of insects. As a result, signal transmission through the central nervous system of pests is suppressed and pests first lose their motor activity, stop feeding and die within one day.
Alfa-cypermethrin affects the central nervous system of insects, impairs the permeability of cell membranes, and blocks nervous channels.

Protective period

The protective period is 2-4 weeks, depending on the type of pest and weather conditions.

Rate of effect

The rate of toxic effect is high.

Spectrum of action

Flea beetles, greenbugs, sunn pests, thrips, cereal chafers, ground beetles.

Usage regulations

Crop	Harmful object	Consumption rates product, l/ha	Consumption rates working solution, l/ha	Method, time, features of application	Safety interval, days (number of applications)
Spring and winter wheat	Chaetocnema hortensis	0,1	100-200	Spraying sprouts	20(2)

Sunn pest, greenbugs, thrips, scarab beetles, corn flies	0.1 0.1(A)	200-400 25-50(A)	Spraying during the growing period	20(2)	
Winter wheat	Ground beetle	0.15-0.25 0.15-0.25(A)	100-200 25-50(A)	Spraying sprouts	20(2)
Wheat, barley	Chaetocnema hortensis	0,1	100-200	Spraying of sprouts	20(2)
	Greenbugs, thrips, corn flies, Lema beetles	0.1 0.1(A)	200-400 25-50(A)	Spraying during the growing period	20(2)
Maize	Cut worms	0.15-0.2	100-200	Spraying sprouts	30(2)
	European corn borer, planthopper	0.15-0.2 0.15-0.2	200-400 25-50(A)	Spraying during the growth period	30(2)
	Sod webworms, aphids	0.1-0.15 0.1-0.15(A)			
	Brown marmorated stinkbug	0.1-0.2 0.1-0.2(A)			
Sunflower	Cabbage moth	0.15-0.2 0.15-0.2(A)	200-400 25-50(A)	Spraying during the growth period	31(2)

Sod webworms	0.1-0.15 0.1-0.15(A)				
Pea	Field pea weevil, pea aphid	0.1-0.15 0.1-0.15(A)	200-300 25-50(A)	Spraying during the growth period	14(2)
	Pea moth	0.15-0.2 0.15- 0.2(A)			
Soybean	Soybean pod borer	0.15-0.2 0.15-0.2(A)	200-400 25-50(A)	Spraying during the growth period	30(2)
	Lima bean pod borer, sod webworms	0.1-0.15 0.1-0.15(A)			
Sugarbeet	Sugar-beet weevil, beet flea beetle	0.1-0.15	100-200	Spraying sprouts -(3)	21(2)
	Beet leaf beetle, sod webworms	0.1-0.15 0.1-0.15(A)	200-300 25-50(A)	Spraying during the growth period -(3)	
	Sugar beet weevil	0.2-0.3 0.2-0.3(A)			
Spring and winter rapeseed	Crucifer flea beetles	0.1-0.15	100-200	Spraying sprouts	34(2)

Turnip sawfly, bronzed blossom beetle,cabbage seedpod weevil	0.1-0.15 0.1-0.15(A)	200-400 25-50(A)	Spraying during the growth period		
Diamondback moth	0.15-0.2 0.15-0.2(A)				
Mustard, redcurrant, thistle (seed crops)	Crucifer flea beetles	0.1-0.15	100-200	Spraying at sprouts	-(2)
	Rape sawfly, rape pollen beetle, rapeseed weevil	0.1-0.15	200-400	Spraying during the growth period	-(2)
	Diamondback moth	0.15-0.2	200-400	Spraying during the growth period	-(2)
Chickpea	Chickpea fly	0.1-0.2	200-400	Spraying during the growth period	14(2)
Conifers	Needle-eating insects, including Siberian lappet, pine web□spinning sawfly (Acantholyda posticalis), fox□coloured sawfly, and gypsy moth	0.05-0.07 0.05-0.07(A)	100-200 3-25(A)	Spraying when caterpillars and senior and junior larvae develop	-(1)

0.07	1-3	Spraying in the period when caterpillars and junior and senior larvae and imago develop using the "GARD" aerosol adjustable dispersiveness generator. The effective operating range is 140–480m.	-(1)		
Foliage species	Leaf-eating and sucking insects, including oak lace bugs, oak flee, and gypsy moth	0.05-0.07 0.05-0.07(A)	100-200 3-25(A)	Spraying when caterpillars and senior and junior larvae develop	-(2)
		0.07	1-3	Spraying in the period when caterpillars and junior and senior larvae and imago develop using the "GARD" aerosol adjustable dispersiveness generator. The effective operating range is 140–480m.	-(1)

(A) - aerial spraying

Attention! Humans are not allowed to arrive at and stay in the treated areas until 3 days after treatment. Picking up wild-growing mushrooms and berries is prohibited in the treatment period.

Application technology. Procedure for working liquid preparation

Spraying upon the achievement of the harmfulness threshold.

The working liquid must be prepared immediately before application. Fill 1/3 of the sprayer with water and stirring it slowly add the designated preparation dose. Wash the canister with the remaining preparation with water several times. Add the water left after washing the canister and the remaining water to the sprayer while stirring. Continue stirring during the treatment to ensure the working liquid is homogeneous. Preparation of the working liquid, as well as filling the sprayer must be performed on special sites that are to be disinfected further. Spraying must be performed in breathless weather. For spraying, use series-produced ground boom sprayers intended for insecticides.

Compatibility with other pesticides

Compatible with most pesticides. Before using the preparation on a large scale, its chemical and biological compatibility with certain products should be checked in the recommended doses.

Resistance likelihood

To prevent resistance, it is recommended to alternate the preparation with insecticides of other chemical groups having other mechanisms of action.

Phytotoxicity

In recommended doses, the preparation is not phytotoxic.

General information

Chemical class

Neonicotinoids,

pyrethroids

Storage conditions

To be kept in the premises intended for storing pesticides. The temperature interval for storage is from -10°C to +35°C.

Guaranteed shelf life

3 years.

Package

PE canister of 5 L

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia