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Pirelli, EC

emulsion concentrate

chlorpyrifos 400 g/L + bifenthrin 20 g/L

A unique insecto-acaricide combination with a strong toxic effect on sugar beet, soybean and rapeseed pests.

Advantages:

— Ensures strong knockdown effect and long-term protection

— Has fumigant action and repellent properties and is able to penetrate into plant tissues

— Ensures elimination of pests in hard-to-reach places, as well as pests resistant to other insecticides

— Has perfect acaricidal properties

— Eliminates pests at all stages of their development

— Is highly effective during mass reproduction periods

— Is especially effective against owl moths and weevils

— Retains toxicity at both low and high air temperatures

Action

Mode of action

Chlorpyrifos has an enteric, contact and fumigant action. It decreases the activity of acetylcholine esterase, an important zymoprotein involved in nerve impulse transmission. It results in tremor with subsequent paralysis. It shows a quick (seconds to minutes) and long-term (up to 2 weeks) protective effect. It eliminates pests at all stages of their development (egg, larvae, imago) and remains highly effective at both low and high temperatures.

Bifenthrin has an acute contact enteric action and affects the nervous system by blocking sodium channels. It effectively inhibits the development of pests, including Coleoptera, Orthoptera, Diptera, and Lepidoptera orders, as well as some mites. Has repellent properties. Has a rapid toxic (knockdown) and long-term residual effect, up to 20-30 days.

Both components complement and reinforce each other's effect (synergism). It ensures high efficacy of the product against a wide range of pests of main agricultural crops. The product contains two active ingredients of different chemical classes, so resistance is highly unlikely.

Protective effect period

Not less than 14 days.

Rate of exposure

High. Visible signs of damage to pests are observed in 30 minutes (knockdown effect). Death in 2-5 hours

Usage regulations

Crop	Harmful object	Consumption rates product, l/ha	Consumption rates working solution, l/ha	Method, time, features of application. Timeframes for the start of manual (mechanized) work, days	Safety interval, days (number of applications)

Sugar beet	Beet flea beetles	0.5	100-200	Spraying in the sprouting period	20 (2)
	Sugar beet weevils, cut worms	0.8-1.0	100-200		
	Spider mites	0.8-1.0	200-400	Spraying during the growth period	
Soybean	Cotton budworm, sod webworm, lima bean pod borer, spider mites	0.8-1.0	200-400	Spraying during the growth period	40 (2)
Spring and winter rapeseed	Crucifer flea beetles	0.5	100-200	Spraying during in the sprouting period	30 (2)
	Turnip sawfly, rapeseed beetle, cabbage seedpod weevil	0.5	200-400	Spraying during in the growing period	30 (2)
	Diamondback moth	0.8-1.0	200-400	Spraying during in the growing period	30 (2)

Product application features

Optimum temperature for the product application is from +10°C to +25°C during the physiological activity period of pests. However, the product is already efficient at +8°C. Do not use if frosts are expected or immediately after them.

Compatibility with other pesticides

Compatible with most pesticides, except copper-based compounds and highly alkaline products. Prior to mixing and application, verify chemical and biological compatibility with the specific product at recommended rates.

Phytotoxicity

Phytotoxicity of chlorpyrifos, similarly to other organophosphorus compounds, can result in damage (burns) of leaves and especially flowers and buds.

General information

Chemical class

organophosphorus compounds, pyrethroids

Formulation

emulsion concentrate

Hazard Class

2, highly hazardous substance

Shelf life

3 years

Storage temperature

-15 to +35°C

Package

5 L, 10 L

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia