



Apex, OEC

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oil emulsion concentrate

pyriproxyfen 100 g/l

Hormonal insecticide with an innovative oil formulation for the protection of rapeseed, fruit crops and vegetable crops

Advantages:

- A unique mode of action that disrupts the hormonal balance in pests
- The most efficient oil formulation, compared to conventional emulsion concentrates
- Has an impact on all stages of pest development
- Long-term protection because of high residual activity
- Low-toxic for bees and warm-blooded animals
- A necessary component of complex anti-resistance crop protection programs

Action

Mode of action

Pyriproxyfen is a contact enteric insecticide. Its mode of action is associated with irreversible disruption of hormonal balance in pests. It affects numerous physiological processes in insects, similar to juvenile hormones, and acts as a potent inhibitor of embryogenesis, metamorphosis and adult insect formation.

When applied to eggs and larvae, pyriproxyfen disrupts preimaginal development, resulting in deformed unviable species with signs of a larva or imago.

Adult insects exposed to pyriproxyfen become sterile and unable to lay viable eggs, preventing the potentially harmful development phase.

Pyriproxyfen has long-term residual activity. A single treatment causes lethal changes in each stage of development, reducing both the treated and subsequent pest populations.

The innovative oil formulation improves the lipophilic properties of the product and extends the activity of the active substance. Oil enhances the contact properties of the product, ensuring even distribution and good adhesion of the insecticide to the insect's body and treated surface. This ensures a rapid toxic effect on the insect and long-term protection during subsequent feeding on the leaves. Furthermore, the oil film on the treated surface keeps the active substance in liquid form for a longer period of time, preventing crystallisation, evaporation and washout by precipitation. As a result, the product remains effective even in adverse weather conditions.

Protective effect period

The product provides long residual activity throughout the growing season. The product causes irreversible disruption of the hormonal balance in pests, leading to abnormal development and eventual death.

Rate of exposure

As a long-acting insect growth regulator, the product causes pest mortality both during application and at subsequent developmental stages.

Usage regulations

Crop	Harmful object	Consumption rates of product, l/ha	Consumption rates of working solution, l/ha	Method, treatment time, and application features	Safety interval, days (number of applications)
Spring and winter rapeseed	Diamondback moth, white butterflies, cabbage moth	0.3-0.5	200-400	Spraying during the growth period	28(3)
Apple tree	California scale, codling moth	0.5-0.8	600-1200		15(3)
Greenhouse tomatoes and cucumbers	Greenhouse whitefly	0.2-0.3	1000-3000		3(1)

Product application features

Pyriproxyfen exhibits delayed action and lacks an immediate «knockdown effect». It induces irreversible, lethal hormonal disruption across all pest life stages, with greatest efficacy against early instars (eggs and young larvae). In mixed-age pest populations – including both damaging and non-damaging stages – during outbreaks, or when rapid knockdown combined with prolonged control is needed, Apex, OEC is recommended in tank mixes with pyrethroids or neonicotinoids (Meadows, OD / Pirelli, EC / Beretta, OD, etc.).

Compatibility with other pesticides

Do not mix with malathion-containing products, as pyriproxyfen and malathion are antagonistic.

General information

Chemical class

juvenoids (synthetic analogues of juvenile hormone)

Transport and storage conditions

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

Shelf life

3 years.

Hazard class

hazard class 3, moderately hazardous substance

Packing

5 liter PE container

Registrant

Schelkovo Agrohimp, Russia

Manufacturer

Schelkovo Agrohimp, Russia