



Avatar® eVo
INSECTICIDE

The ideal insecticide with a unique mode of action to control key insect pests in a wide range of horticulture crops

Visit www.fmccrop.com.au for more information.

Now registered for use in Asparagus, Celery, Cucurbits, Sweet Corn, Blueberries, Rubus, Strawberries, and Macadamia

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FMC

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Avatar® eVo: The ideal insecticide with a unique mode of action to control key insect pests in a wide range of horticulture crops.

Avatar® eVo insect control now has eight new registered crops as well as new pests for existing crops added to its label, making this insecticide an important addition to the range of alternatives for horticulture growers. Avatar® eVo insect control is an industry leading product designed to control the key spectrum of damaging insect pests and to protect crop quality and yield while offering a favourable Integrated Pest Management (IPM) profile.

Key Features of Avatar® eVo

- Fast acting and long-lasting control of major insect pests.
- Latest formulation from the makers of Indoxacarb, the best mixing formulation we have ever made.
- Adding new crops and pests to the most advanced Indoxacarb label, to give unique use patterns exclusively to Avatar® eVo
- Resistance Management Tool: No known cross-resistance to Avatar® eVo, making it a great rotational partner.

The manufacturing and formulation processes of FMC's Indoxacarb active ingredient has continually improved over the years and Avatar® eVo is the latest product of this evolution. The latest formulation supplies only the insecticidally active isomer of indoxacarb as a more user friendly crystalline technical, with the same use rates in the field.

Avatar® eVo with 303 g/kg indoxacarb 95:1 is the only current member of the Group 22A insecticides with this particular composition in Australia. This makes it a powerful tool to use for effective resistance management strategies, in conjunction with other modes of action insecticides.

Avatar® eVo is a unique rotational partner for Group 28 insecticides with more insects and more crops on the label than ever before.

How to get the best out of Avatar® eVo

Avatar® eVo has certain physical properties which influences how it performs in the field.

Understanding these properties helps to determine how to best use the product to maximise control of pests and protection of crops.

Lipophilic properties

Avatar® eVo is highly lipophilic meaning that it binds tightly to the fatty or waxy components of the leaf surface. This helps to explain the excellent rainfastness and residual nature of Avatar® eVo.

“Where it hits, it sticks. Where it sprays, it stays”

Works by ingestion

Avatar® eVo will not move to new parts of the plant once applied. In times of rapid crop growth, shorter spray intervals will help to counter the growth dilution effect. In general, the less new growth being produced by the plant, the longer the period of insect control will be.

For a product that works by ingestion, Avatar® eVo's lipophilic nature also means that it needs good spray coverage across the the feeding sites where target pests occur.

Other properties

Other physical properties of indoxacarb that add to its robustness in the field are:

- Stability under high UV conditions
- Stability across a pH range of 5 – 10, both in the spray tank and environment
- Good efficacy and performance under higher field temperatures

Avatar® eVo is tough on key pests. It works by ingestion and will stop insects from feeding, giving rapid protection of the crop. Avatar® eVo has extended residual control in certain situations and helps to conserve most beneficial insect populations.

Spray timing & symptoms

Avatar® eVo is active against a range of instars, however best management practice is to target the earlier stages. Insects will stop feeding within four hours after ingesting Avatar® eVo, with expected mortality within 2 to 3 days.

Noticeable external symptoms of a susceptible pest being exposed to indoxacarb are:

- Insect stops feeding quickly (within 4 hours after exposure), resulting in enhanced crop protection from reduced feeding
- Insect may undergo tremors and have uncoordinated movements with partial paralysis
- Larvae typically become “C” shaped and/or concertinaed
- Death follows between 4 – 72 hours after exposure
- Due to the debilitating effect of indoxacarb, the affected insect is often more prone to predation or dehydration

NEW CROPS ADDED

- **Asparagus**
- **Protected cropping (capsicum, eggplant, peppers & tomato)**
- **Celery**
- **Cucurbits**
- **Sweet corn**
- **Blueberries and Rubus spp.**
- **Strawberries**
- **Cherries**

NEW PESTS FOR EXISTING CROPS ADDED

- Leafy Veg - **Lucerne leafroller** (*Merophyas divulsana*)
- Capsicum, Eggplant, Peppers, Tomato (trellis and field and protected) - **Soybean looper** (*Thysanoplusia orichalcae*), **Cluster caterpillar** (*Spodoptera litura*)
- Cherries, Nectarine, Peaches, Plums - **European Earwig** (*Forficula auriculari*) (suppression only), **Inland katydid** (*Caedicia simplex*), **Pear and Cherry slug** (*Caliroa cerasi*)

Avatar® eVo: The ideal rotational partner for key insect pests just got better across a wider range of crops.

- Proven Group 22A class of chemistry
- Improved formulation for enhanced mixability
- Expanded label offering new crops including Sweetcorn and Cucurbits, and new pests for existing crops
- Effective control of lepidopteran species plus several species of weevils and other chewing pests
- Resistant to wash-off and stable under UV light and heat
- Compatible with most biological control programs
- Helps to conserve populations of natural enemies

Pests controlled*

Caterpillar Pests:-

- Beet web worm (*Spolodea recurvalis*)
- Cabbage centre grub (*Hellula hydralis*)
- Cabbage white butterfly (*Pieris rapae*)
- Cluster caterpillar (*Spodoptera litura*)
- Codling moth (*Cydia pomonella*)
- Cotton bollworm (*Helicoverpa armigera*)
- Diamondback moth (*Plutella xylostella*)
- Grapevine moth (*Phalaenoides glycinae*)
- Lightbrown apple moth (*Epiphyas postvittana*)
- Lucerne leafroller (*Merophyas divulsana*)
- Native budworm (*Helicoverpa punctigera*)
- Oriental fruit moth (*Grapholita molesta*)
- Soybean looper (*Thysanoplusia orichalcea*)
- Potato moth (Tomato leaf miner) (*Phthorimaea operculella*)

Weevil Pests:-

- Apple weevil (*Otiorhynchus cribricollis*)
- Fuller's rose weevil (*Asynonychus cervinus*)
- Garden weevil (*Phlyctinus callosus*)
- Vegetable weevil (*Listroderes obliquus*)

*NOT ALL PESTS ARE REGISTERED IN ALL CROPS

BEE STATEMENT: Under field conditions, at labelled use rates, Avatar® eVo is safe to honey bees foraging after the spray has dried. Exposure to a direct spray may be harmful to certain bee species though. Best Management Practice dictates Avatar® eVo should not be sprayed when Bees are actively foraging.

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Other Pests:-

- European Earwing (*Forficula auricularia*) (suppression only)
- Inland katydid (*Caedicia simplex*)
- Pear and Cherry slug (*Caliroa cerasi*)
- Wingless grasshopper (*Phaulacridium vittatum*)

Labelled Crops*	Use in rotation with:
Asparagus	
Brassica vegetables	Coragen® insecticide
Blueberries and Rubus species	
Celery	Coragen® insecticide
Sweet Corn	Coragen® insecticide
Strawberries	Coragen® insecticide Benevia® insecticide
Cucurbit vegetables	Coragen® insecticide Benevia® insecticide
Fruiting vegetables	Coragen® insecticide Benevia® insecticide
Grapes	Altacor® X-Force insecticide
Leafy green vegetables e.g spinach	Coragen® insecticide
Pome Fruit	Altacor® X-Force insecticide
Stone Fruit	Altacor® X-Force insecticide