

# EFFECTIVE PROTECTION

## From select lepidopteran pests

The logo for ECDYPRO features the word "ECDYPRO" in a bold, sans-serif font. "ECDY" is in black and "PRO" is in orange. The letters are surrounded by a decorative arc of orange dots, with a solid black dot at the top left and bottom right ends of the arc.

**ECDYPRO**

### CONTROL SELECT LEPIDOPTERAN PESTS

- Narrow target spectrum: Little off-target effect
- Safe to Bees and Beneficials
- No mite flare effects
- Can be used during flowering
- Rapid cessation of feeding damage



# ECDYPRO



## MODE OF ACTION

Ecdypro is a Group 18 bisacylhydrazine insecticide that acts as an insect growth regulator (IGR) in target lepidopteran pests. The active ingredient, Tebufenozide is an Ectysteroid agonist that mimics an insect growth hormone. Once ingested, ecdysone receptors are activated by the increased concentration of the IGR insecticide, which induces a molting cycle. Unlike the natural hormones that normally trigger molting, the stability of Tebufenozide *in vivo* is far greater than the hormone that it is mimicking. As such, genes responsible for the early phases of the molting process are expressed by the increased concentration of the IGR, but the late phase genes that are triggered by the decline in hormonal concentration are not expressed due to the unnaturally prolonged presence of Tebufenozide. In susceptible Lepidoptera, lethality is due to a variety of altered mechanisms resulting in an inability to complete a molt, starvation and desiccation due to hemorrhage.

## WHY ECDYPRO?

When used as directed, Ecdypro provides effective protection from select lepidopteran pests of various crops.

### Unique site of Action

Ecdypro is a Group 18 insecticide, providing a valuable rotational tool to products from the commonly used Groups 1, 3 & 28.

### Narrow Target Spectrum

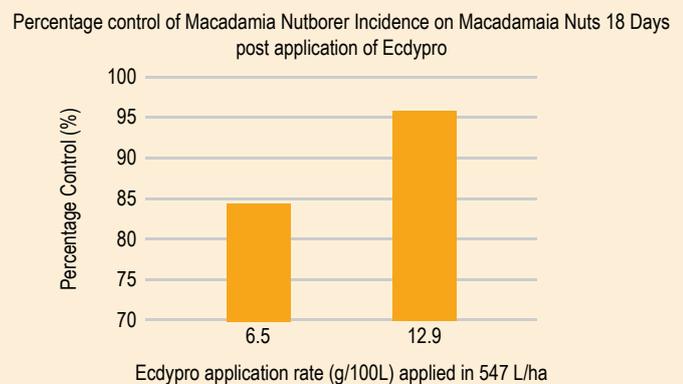
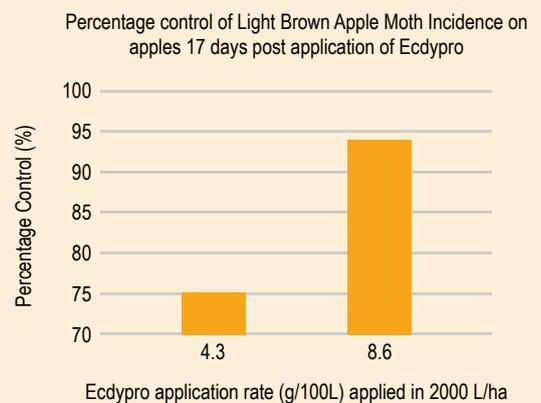
Ecdypro is very active against key lepidopteran pests while being relatively non-toxic to off target invertebrate species.

### Bee Friendly

Exhibits very low toxicity to bees, more than comparable to other bee friendly products.

### Economical

Ecdypro has significant price advantages compared to other insecticides in its class.



## USING ECDYPRO

- Ecdypro is primarily active via ingestion and exhibits limited systemicity in host crops. Thorough coverage of the crop with suitable water rates is required for best results.
- Ecdypro can be used for targeting key pests like Macadamia Flower Caterpillar, Nutborer, Leaf Rollers and Light Brown Apple Moth during periods of flowering due to its safety to foraging bees.
- Ecdypro works best on 1st and 2nd instar larvae, so early detection and targeting critical damage windows will provide the best level of control.
- Ecdypro causes a rapid cessation to feeding, however live larvae may still be visible up to 7 days post application. Further damage will not generally occur during this interval.
- Using Ecdypro will not cause secondary flare up of mites or other pests.

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