

PEREGRINE

INFO SHEET

PEREGRINE INSECTICIDE

240 g/L METHOXYFENOZIDE as an SC formulation

Peregrine is a group 18 insecticide, the active Methoxyfenozide belongs to the diacylhydrazine class of insecticides and has a novel mode of action. The chemical mimics the action of the Page 2 molting hormone of Lepidopterous (moths, butterflies) larvae.

Peregrine insecticide is non-system, that once applied has residual activity for up to 21 days.

Methoxyfenozide is considered soft on non-target organisms, including a wide range of non-target and beneficial insects.

Peregrine is registered for the control of lightbrown apple moth on **apples & pears (pome fruit), blueberries, citrus, grapevines and kiwifruit**; and for the control of various other lepidopteran pests of **almonds, apples & pears (pome fruit), avocado, coffee, custard apple, eggplant, longan, lychee, peppers (capsicum and chilli), okra, macadamia and tomatoes**.

ALMONDS

Carob moth (*Ectomyelois ceratoniae*) is a numerous tree crop pest around the world. In recent years Carob moth has become an increasing problem, with the larvae (caterpillar) feeding on the almond kernel, making them unsaleable for human consumption as a whole kernel.

Peregrine Insecticide is registered in Almonds for the control of Carob Moth and should be used in a program targeting both 1st generation (Early post flowering, Aug-Sept) and 2nd generation (Hull split).

When using Peregrine to control Carob Moth in Almonds, larvae (caterpillars) may not appear to die for 3-6 day following the application, during this time they will not feed. Carob Moth eggs will be controlled, and new egg lays on treated surfaces do not hatch, or larvae do not survive.

Peregrine should be applied with a wetting agent, such as Agral 600.

PEREGRINE INSECTICIDE TRIAL RESULTS

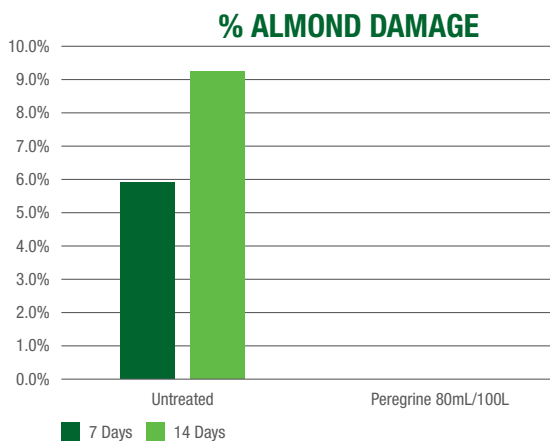
Trial 1

Robinvale Victoria - 2016/2017

Peregrine Rate 80mL/100L

Adjuvant: Agral 600 at 0.01% of water volume

There was no phytotoxicity effect from Peregrine in the trial



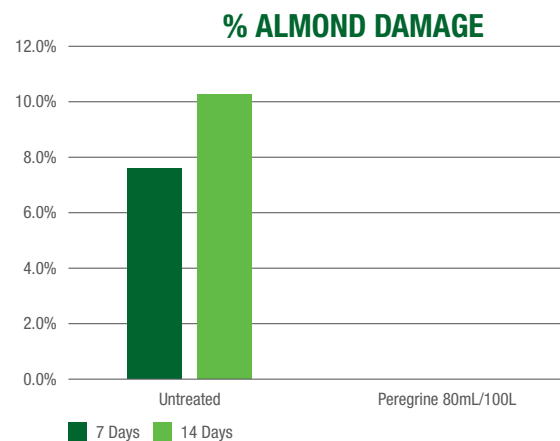
Trial 2

Wood Wood, Victoria - 2016/2017

Peregrine Rate 80mL/100L

Adjuvant: Agral 600 at 0.01% of water volume

There was no phytotoxicity effect from Peregrine in the trial



DIRECTIONS FOR USE

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RESTRAINTS:

DO NOT apply if rain or overhead irrigation is expected within 6 hours. Retain the first flush of irrigation tailwater/storm water in the tailwater dam after application.

DO NOT use more than 3 sprays per season in any single crop.

DO NOT use in covered or protected situations such as glasshouses, greenhouses, shade houses or plastic tunnels.

DO NOT apply by air.

DO NOT apply more than three times to any Almond crop. **DO NOT** apply more than once at the hull split stage.

TREE AND VINE CROPS

In the following table, all rates given are for dilute spraying. For concentrate spraying, refer to the mixing/application section. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. For concentrate spraying **DO NOT** use at rates greater than 5 times the dilute spraying rate.

CROP	PEST	RATE/100 LITRES	Critical Comments
Almonds	Carob Moth (1st generation)	80 mL + Wetter	Practice good orchard hygiene with the removal of mummified fruit in winter. Early post-flower application: At the beginning of the season (Aug-Sep), carefully monitor pheromone traps for peak adult pest incidence of 1st generation. Once regular field scouting indicates egg laying and newly hatched larvae apply a maximum of 3 sprays of Peregrine Insecticide at a minimum of 10 day intervals between sprays. Apply to complete coverage. Refer to Wetting Agents in the General Instructions section for more information.
	Carob Moth (2nd generation)		Hull-split application: Peregrine Insecticide should be applied at the start of hull split (2-5% of the almond hull sutures open). Carefully monitor pheromone traps for peak activity of 2nd generation moths. Continue field scouting for egg-laying activity, and apply Peregrine Insecticide to coincide with the initiation of egg hatch. Apply to ensure complete coverage of all foliage and fruit (hull/shell) surfaces. Concentrate spraying is not appropriate for this pest. Do not apply less than 2000 L/ha water.
Apples and Pears (and other pome fruit)	Lightbrown Apple Moth	25 mL	For control of the spring generation of Lightbrown Apple Moth, commence spraying at petal fall and apply in a series of 3 applications at 14 day intervals. Alternatively, in areas where a later summer generation occurs, spray when moth activity is indicated by pheromone traps or lure pots. Apply a minimum of 2 sprays with a 21 day interval. Ensure thorough coverage of developing fruit clusters. When insect pressure is high in blocks with large, vase-shaped trees and with short-stemmed, bunched varieties, Peregrine Insecticide must be applied by dilute spraying to ensure run-off into fruit clusters.
	Loopers		Control of these pests is best achieved using a schedule of 3 sprays of Peregrine Insecticide in spring (see above).
Avocado	Avocado eafroller	25 mL	Crop monitoring is recommended from pre-bloom. Apply at first sign of pest incidence and target eggs and newly hatched larvae. Additional sprays may be required if re-infestation occurs.
Blueberry	Lightbrown Apple Moth	25 mL	Thorough coverage of the plant is essential. Target eggs and newly hatched larvae. Apply when locally determined thresholds are exceeded.
Citrus	Lightbrown Apple Moth	25 mL + a wetting agent at 10 mL/100 L	Use with high volume spraying equipment only. Thorough coverage is essential. Spray to runoff. Apply when eggs and very small larvae are first seen in flower clusters or developing fruitlets. A second spray may be required 2-3 weeks later if larvae hatch over an extended period.
Coffee	Avocado leafroller	25 mL	Crop monitoring for pest incidence is recommended from pre-bloom. Apply at first sign of pest incidence, targeting eggs and very small larvae before they are protected in retreats. Additional sprays may be required if re-infestation occurs.
Custard Apple	Yellow Peach Moth	25 mL	Apply when locally determined pest thresholds are exceeded as indicated by field checks. Additional sprays may be required if re-infestation occurs. Spray to thoroughly cover fruit.
Grape Vines	Lightbrown Apple Moth	25 mL	Thorough leaf tip and bunch coverage is essential. Spring generation: Apply from pre-flowering onwards targeting eggs and small (5-6mm long) larvae (up to 3rd instar). Apply a second spray 14-21 days later. Summer generation: Apply at first sign of activity targeting eggs and larvae up to 5-6mm long (up to 3rd instar). The summer generation can only be detected by monitoring.
Kiwifruit	Lightbrown Apple Moth	25 mL	Monitor pest activity from bud burst onwards. Target sprays at eggs and first instar larvae.
Longan	Macadamia Nutborer	40 mL	Spray thoroughly when pest numbers reach economic threshold levels according to field checks. Target sprays against eggs and early instar larvae.
Lychee			
Macadamia	Macadamia Flower Caterpillar	25 mL	Monitor for eggs and very small larvae on flowers and apply at a threshold of 50-80% of racemes infested.
	Macadamia Nutborer	40 mL	Spray to thoroughly cover nuts when pest numbers reach economic threshold levels according to field checks. Target sprays against eggs and early instar larvae.

NON TREE AND VINE CROPS

Note: Peregrine Insecticide is a moult-accelerating insecticide that requires ingestion for control. Feeding ceases almost immediately after ingestion. Larvae in protected feeding sites (eg. Flowers) will not be controlled. Mortality of larvae will not be evident until 4-6 days after application.

CROP	PEST	RATE/100 LITRES	Critical Comments
Tomatoes Peppers (Capsicum and Chilli) Eggplant Okra	Native Budworm, Tomato Grub, Cluster Caterpillar	125 or 170 mL/100 L or 1.25 or 1.7 L/ha	Use the higher rate under heavy egg pressure. Apply Peregrine Insecticide to brown eggs or at egg hatch when pest numbers reach treatment threshold levels as determined by field checks. Maintain field checks and reapply after 7 days if necessary. Ensure thorough coverage of plants.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION. Always read the label before use.

For more information, contact your local grochem representative

grochem.com

for all enquiries 1800 777 068

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