

CAROB MOTH CONTROL IN ALMONDS



Carob moth (*Apomyelois ceratoniae*) is a pest of numerous tree crops around the world, including almonds. In recent years carob moth has caused increasing concern for the Australian almond industry. The larval stage (caterpillar) of carob moth feeds on almond kernels, making them unsuitable for sale as whole kernels for human consumption, and possibly increasing the risk of fungal infection. The presence of insect-damaged kernels can also reduce the quality grading of whole batches of kernels, resulting in significant economic loss.

Source : Carob moth in almonds, David Madge, Cathy Taylor and David Williams, DEDJTR, Vic.

- + Very rapid feeding cessation, strong residual activity and rainfastness provides nearly immediate and long-lasting crop protection under a range of growing conditions.
- + Highly efficacious with translaminar activity and local systemicity.
- + Ovi-larvicidal, larvicidal
- + Compatible with IPM systems

DIRECTIONS FOR USE

CROP	INSECT PEST	RATE
Almonds	Carob moth (<i>Ectomyelois ceratoniae</i>)	9g/100L

CRITICAL USE COMMENTS:

- Carefully monitor for eggs and larvae by regular field scouting at the beginning of the season. The first application should be when 1 - 5 % of the Almond hull sutures are opening.
- Target sprays against mature eggs and newly hatched larvae.
- Apply by airblast sprayer or equivalent and ensure thorough coverage of all leaf and nut surfaces.
- **DO NOT** apply more than two (2) applications of the chlorantraniliprole based product per season, with a minimum re-treatment interval of 7 days between consecutive applications.
- **DO NOT** treat successive Carob moth generations, alternate to a different mode of action insecticide.

WITHHOLDING PERIOD

HARVEST:

DO NOT harvest for 14 DAYS after application.

GRAZING:

DO NOT allow livestock to graze in treated areas.

ALTACOR® X-FORCE INSECT CONTROL

Altacor® X-Force is an anthranilic diamide insecticide in the form of a water dispersible granule.

RESISTANCE MANAGEMENT:

Altacor® X-Force may be subject to specific resistance management strategies. To help prevent the development of resistance to Altacor® X-Force, use in accordance with the current Insecticide Resistance Management (IRM) strategy for your region.

SURFACTANT / WETTING AGENT:

Use a non-ionic surfactant / wetting agent at 15 g active/100 L, (e.g. Agral* 600 at 25 mL/100 L). **DO NOT** use BS1000* or Activator* 90 as it may cause crop phytotoxicity.



ALTACOR® X-FORCE

INSECTICIDE



GROUND APPLICATION:

Minimise spray drift. Use a sprayer fitted with high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size, DOES NOT improve canopy penetration and may increase drift potential. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE. Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. For orchard/vineyard sprayers avoid directing spray above trees and always turn-off outward pointing nozzles at row ends and outer rows.

COMPATIBILITY:

Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of the desired tank mix to observe possible adverse changes (settling out, flocculation etc). Avoid complex tank mixtures of several products or very concentrated spray mixtures. Altacor® X-Force is compatible with a wide range of products.

MIXING SEQUENCE:

The mixing sequence recommended is: water soluble bags, dry flowable or water dispersible granules (Altacor® X-Force), wettable powders, water based suspension concentrates, water soluble concentrates, oil based suspension concentrates, emulsifiable concentrates, adjuvants and surfactants, soluble fertilisers.

SPRAY EQUIPMENT CLEANOUT:

Prior to application, start with clean, well-maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of hardened deposits forming which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water.

STORAGE AND DISPOSAL:

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

DIRECTIONS FOR USE:

Restraints - **DO NOT** apply if rainfall is expected within 2 hours of application.

EXPORT OF PRODUCE:

Import tolerances for produce treated with Altacor® X-Force insecticide may be pending in some countries. Consult with your exporter or FMC before applying Altacor® X-Force insecticide to export crops.

Need help? Contact your local representative if you need help with determining the best application parameters for your Altacor® X-Force spray.

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Always read and follow label directions

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