



The miracles of science®

# DuPont™ Altacor®

## insecticide

### Technical Information

**Active Ingredient:**

350 g/kg CHLORANTRANILIPROLE in the form of a water dispersible granule.

**Pack Sizes:**

540 g

GROUP

**28**

INSECTICIDE

### ECOTOXIC

FOR THE CONTROL OF LEAF ROLLER CATERPILLAR AND CODLING MOTH IN APPLES, PEARS AND NASHI PEARS AND LEAF ROLLER CATERPILLARS IN AVOCADOS.

Registered pursuant to the ACVM Act 1997 No. P7831

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to the HSNO Act 1996 Code HSR007968

READ LABEL BEFORE MIXING AND APPLYING

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### HAZARD CLASSIFICATION

9.1A

### APPROVED HANDLER

This product must be under the control of an approved handler during use.

Use of this product in any manner contrary to this label may be an offence under the HSNO Act.

### ECOTOXIC

Very toxic to aquatic organisms. **DO NOT** apply into/onto water. Avoid contamination of any water supply with product or empty container.

**DO NOT** allow spray drift outside the target area.

### PRECAUTIONS

Keep out of reach of children.

Avoid breathing spray mist. **DO NOT** eat, drink or smoke while using.

Store in original container, tightly closed and under lock and key. **DO NOT** store with Class 1, 2, 3.2, 4 or 5 substances or feed, seeds or foodstuffs. Stores containing more than 100 kg of this product require secondary containment and are subject to signage.

When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

### DISPOSAL

Container disposal: Ensure container is empty. Burn, if circumstances, especially wind direction permit, otherwise bury in an approved landfill.

Dispose of this product only by using according to this label. Always follow local authority requirements.

### FIRST AID

If swallowed: **DO NOT** induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if feeling unwell. If spilt on skin, remove contaminated clothing and wash affected areas of skin. **DO NOT SCRUB THE SKIN**. If concentrate is splashed in eyes, flush with running water for at least 15 minutes. If inhaled, remove to fresh air.

### SPILLAGE

Wear appropriate protective clothing. Shovel or sweep up and dispose of waste safely in an approved landfill.

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## GENERAL INSTRUCTIONS

DuPont™ Altacor® insecticide is an anthranilic diamide insecticide in the form of a water dispersible granule. Altacor® is particularly active on Lepidopteran insect pests, primarily as a larvicide. Before application monitor insect populations to determine whether or not there is a need for application of Altacor® based on locally determined economic thresholds. More than one treatment of Altacor® may be required to control a population of pests.

DuPont™ Altacor® insecticide can be used in Integrated Pest Management (IPM) programmes. Harmful to some beneficial insects – particularly some foliage dwelling predators which may be used in Integrated Pest Management.

### BEE SAFETY

Activity of honey bees will not be disrupted provided DuPont™ Altacor® insecticide is applied in non-foraging periods and once the spray has dried.

## INSECTICIDE RESISTANCE WARNING

Some naturally occurring insect biotypes resistant to Altacor® and similar Mode of action insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Altacor® and other similar Mode of action insecticides are used repeatedly. The effectiveness of Altacor® on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use DuPont accepts no liability for any losses that may result from the failure of Altacor® to control resistant insects.

Altacor® may be subject to specific resistance management strategies. To help prevent the development of resistance to Altacor®, use Altacor® in accordance with the current Insecticide Resistance Management (IRM) strategy for your region. For further information contact your farm chemical supplier, consultant, or local DuPont Representative.

## MIXING INSTRUCTIONS

Fill spray tank to ¼ to ½ full of water. Measure the amount of Altacor® required for the area to be sprayed. Add Altacor® directly to the spray tank with the agitation engaged. Mix thoroughly to disperse the insecticide. Once dispersed, the material must be kept in suspension at all times by continuous agitation. Use mechanical or hydraulic means, **DO NOT** use air agitation, premix or slurry.

If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully resuspended. **DO NOT** allow spray mix to sit overnight, as resuspension may be difficult.

## SURFACTANT/WETTING AGENT

Use a non-ionic surfactant/wetting agent recommended for horticultural crops at the label rate.

**DO NOT** add a non-ionic surfactant/wetting agent if:

- mixing with another product which already contains a surfactant and/or the product label advises not to add a surfactant.
- mixing with a liquid fertiliser.

## APPLICATION

The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in the substance leaching into ground water.

Due to the persistent nature of chlorantraniliprole in soil, this product is expected to accumulate over successive seasons following repeated use.

### Dilute Spraying

- Use a well maintained, properly calibrated sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.

- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of runoff. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.
- Always apply sufficient water to cover the crop to the point of runoff, otherwise under dosing will occur and insect control may be inadequate.

#### **COMPATIBILITY**

Experience to date suggests Altacor<sup>®</sup> is compatible with other commonly used fungicides (such as Kocide<sup>®</sup> Opti™, mancozeb, Nustar<sup>®</sup>), insecticides and foliar fertilisers (such as Calcium chloride, Calcium nitrate). Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of the desired tank mix and observe possible adverse changes (settling out, flocculation etc).

#### **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 forming hardened deposits which might become difficult to remove. Drain spray equipment.

Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. **DO NOT** clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

#### **RECORD KEEPING**

Records of use, as described in The New Zealand Management of Agrichemicals (NZS8049) must be kept.

#### **NOTICE TO BUYER**

DuPont warrants that this product conforms to the chemical description on the label thereof and if reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use of application, all of which are beyond the control of DuPont. To the extent permitted at law, DuPont shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.

TO THE EXTENT PERMITTED AT LAW, DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

It is an offence to use this product on animals.

## DIRECTIONS FOR USE

### RESTRAINTS:

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

**DO NOT** apply in orchards when the wind speed is less than 3 or more than 20 kilometres per hour as measured 15 metres outside of the orchard on the upwind side.

EXPORT STATEMENT: Import tolerances for produce treated with DuPont™ Altacor® insecticide may be pending in some countries. Consult with your exporter or DuPont before applying Altacor® to export crops.

CROP	PEST	RATE/100 L	WHP	CRITICAL COMMENTS
The rates recommended are for high volume (dilute) spraying to the point of runoff. For concentrate spraying adjust dilution rate accordingly. Ensure thorough spray coverage.				
Pome fruit including; Apples, Nashi Pears, Pears	Codling moth ( <i>Cydia pomonella</i> )	<b>Dilute spraying:</b> 9 g + non-ionic surfactant (See Surfactant/Wetting agent section)	14 days	Make no more than 2 applications per crop per season. Apply where monitoring indicates thresholds are exceeded. Spray intervals must not be shorter than 14 - 21 days over the petal fall to early December period, or 21 - 28 days in the period from the end of December onwards. Note: For apple export withholding periods refer to Pipfruit NZ export spray withholding period wall chart.
	Leafroller caterpillars	( <b>DO NOT</b> apply more than 180 g/ha)		
Avocados	Leafroller caterpillars	9 g + non-ionic surfactant (See Surfactant/Wetting agent section)		Ensure complete coverage of foliage and fruit. Apply when monitoring indicates thresholds are exceeded and repeat after 21 - 28 day intervals if required. Make no more than 2 applications per crop per season. Note: For avocado export withholding periods refer to the Avocado Industry Council.
		( <b>DO NOT</b> apply more than 270 g/ha)		

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards

### WITHHOLDING PERIODS

#### HARVEST

Apples, Avocados, Nashi Pears, Pears: **DO NOT** harvest for 14 days after application.

#### GRAZING

**DO NOT** feed treated produce to livestock or allow livestock to graze within treated orchards.

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Formulated for and distributed by  
DuPont (New Zealand) Limited  
Level 1,  
14 Ormiston Road  
East Tamaki, Auckland 2016  
Telephone: 0800 65 8080  
<http://www.cropprotection.dupont.co.nz>