

**DUPONT™ ALTACOR™ insecticide**

WETTABLE GRANULES

FOR SALE FOR USE ON POME FRUIT GROUP,  
STONE FRUIT GROUP, AND GRAPES

AGRICULTURAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

Warning, contains the allergen milk

**GUARANTEE:** Chlorantraniliprole 35%

REGISTRATION NO. 28981 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 250g, 450g, 10kg, 25kg

E.I. DU PONT CANADA COMPANY  
AGRICULTURAL PRODUCTS  
P.O. BOX 2300, STREETSVILLE  
MISSISSAUGA, ONTARIO  
L5M 2J4  
1-800-667-3925

## PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN.**
- Wear long sleeves, long pants and chemical resistant gloves while mixing /loading, applying and during clean up and repair.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)

## ENVIRONMENTAL HAZARDS:

- Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.
- Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.
- Chlorantraniliprole is persistent and may carryover. It is recommended that any products containing chlorantraniliprole not be used in areas treated with this product during the previous season.
- The use of this chemical may result in contamination of groundwater particularly in areas where soil is permeable (e.g. sandy soil) and/or the depth to the water table is shallow.
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), estuarine/marine habitats.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes."

## STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination store this product away from food or feed.

## DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## FIRST AID:

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

For medical emergencies call 1-800-441-3637 (24 hours).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

<<DFU Booklet>>

<b>GROUP</b>	<b>28</b>	<b>INSECTICIDE</b>
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## GENERAL INFORMATION

DUPONT™ ALTACOR™ insecticide is a water dispersible granule that can be applied as a foliar spray, using ground application to control many important insect pests. DUPONT™ ALTACOR™ insecticide is mixed with water for application.

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult your local extension specialist or certified crop advisor to determine appropriate threshold levels for treatment in your area.

Use sufficient water to obtain thorough, uniform coverage.

## DIRECTIONS FOR USE

### POME FRUITS – Crop Group 11

**Spray Volume for Pome Fruits** : Apply in a minimum finished spray volume of 450 L/ha by ground.

SITE	PEST	RATE GRAMS DUPONT™ ALTACOR™ insecticide/ HA	SPECIFIC DIRECTIONS
POME FRUITS  Apple, Crabapple, Loquat, Mayhaw, Pear, Pear, oriental, Quince	Codling moth	145 to 215	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.
	Oriental fruit moth	145 to 285	For optimum control of 1st generation codling moth, apply before first egg hatch (80 – 110 degree days Celsius after BIOFIX). Monitor populations and reapply 10 – 14 days later if required. For 2nd generation codling moth, timing of the first application is based on first egg hatch after establishing a new BIOFIX. Monitor populations and reapply 10 – 14 days later if required. BIOFIX is determined to be set when a first consistent moth catch has been attained within the orchard. For the determination of degree-days for codling moth, a lower and upper threshold of 10 and 31 degrees Celsius is used.
	Spotted tentiform leafminer		For optimum control of oriental fruit moth, Apply at 1st egg hatch of the targeted generation. Monitor populations using pheromone traps and reapply 10 – 14 days later if required.
	Western tentiform leafminer		For optimum control of over-wintering generations of oblique banded leafroller, monitor larval population in the spring, and apply when over-wintering larvae become active, from pink stage through petal fall. For summer generations, monitor adult moth flight, and apply at first egg hatch (170 – 240 degree days Celsius) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be needed to control the extended emergence of the small larvae.
	Oblique banded leafroller		
	Three- lined leafroller		

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**RESTRICTIONS AND PRECAUTIONS: Pome Fruits**

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 3 applications per season.
- Do not apply more than once every 10 days.
- Do not apply less than 14 days before harvest. Observe a 14-day PHI.
- Do not exceed a total of 645g DUPONT™ ALTACOR™ insecticide per ha per season.

**GRAPES**

**Spray Volume for Grapes** : Apply in a minimum finished spray volume of 450 L/ha by ground.

SITE	PEST	RATE GRAMS DUPONT™ ALTACOR™ insecticide/H A	SPECIFIC DIRECTIONS
GRAPES	Grape berry moth	145 to 285	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control. Monitor populations and reapply 7 – 10 days later if required.  For optimum control of the grape berry moth, begin applications after moth flight begins and prior to egg hatch.  For optimum control of the climbing cutworms, monitor bud development and the presence of cutworm damage.
	Climbing cutworm	215 to 285	

**RESTRICTIONS AND PRECAUTIONS: Grapes**

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 3 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 14 days before harvest. Observe a 14-day PHI.
- Do not exceed a total of 645g DUPONT™ ALTACOR™ insecticide per ha per season.

## STONE FRUITS – Crop Group 12

**Spray Volume for Stone Fruit Group** : Apply in a minimum finished spray volume of 450 L/ha by ground.

SITE	PEST	RATE GRAMS DUPONT™ ALTACOR™ insecticide/ HA	SPECIFIC DIRECTIONS
STONE FRUIT GROUP Apricot, Cherry, sweet, Cherry, tart, Nectarine, Peach, Plum, Plum, chickasaw, Plum, damson, Plum, Japanese, Plumcot, Prune	Oriental fruit moth	215 to 285	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.
	Peach twig borer  Oblique banded leafroller and Three- lined leafroller	145 to 285	<p>For optimum control of oriental fruit moth, apply at 1st egg hatch of the targeted generation. Monitor populations using pheromone traps and reapply 7 – 10 days later if required.</p> <p>For optimum control of over-wintering generations of oblique banded leafroller, monitor larval population in the spring, and apply when over-wintering larvae become active, from pink stage through petal fall. For summer generations, monitor adult moth flight, and apply at first egg hatch (170 – 240 degree days Celsius) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be needed to control the extended emergence of the small larvae.</p> <p>For optimal control of peach twig borer, use pheromone traps to monitor the male moth activity. Follow local recommendations for thresholds information.</p> <p>For spring/overwintering or first summer generation larvae: Apply within 7 days of first trap catch of adult male moths.</p> <p>For second summer generation larvae: To ensure good crop protection, continue monitoring for second brood moths until at least mid-August. If required, apply a second spray within 7 days of first trap catch of adult male moths.</p>

### RESTRICTIONS AND PRECAUTIONS: Stone Fruits

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 3 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 10 days before harvest. Observe a 10-day PHI.
- Do not exceed a total of 645g DUPONT™ ALTACOR™ insecticide per ha per season.

**MIXING INSTRUCTIONS:**

Spray equipment must be clean and free of previous pesticide deposits before applying DUPONT™ ALTACOR™ insecticide. Fill spray tank 1/4 to 1/2 full of water. Add DUPONT™ ALTACOR™ insecticide directly to spray tank. Mix thoroughly to fully disperse the insecticide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

**SPRAYER CLEANUP:**

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.

**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- Wear long sleeves, long pants and chemical resistant gloves while mixing /loading, applying and during clean up and repair.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

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**DO NOT** apply by air.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer zones (meters) required for the protection of			
			Freshwater habitat of depths:		Estuarine/Marine Habitats of depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Airblast	Pome fruit, grapes, stone fruit	Early growth stage	10	4	1	0
		Late growth stage	5	2	1	0

#### ENVIRONMENTAL HAZARDS:

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- Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.
- Chlorantraniliprole is persistent and may carryover. It is recommended that any products containing chlorantraniliprole not be used in areas treated with this product during the previous season.
- The use of this chemical may result in contamination of groundwater particularly in areas where soil is permeable (e.g. sandy soil) and/or the depth to the water table is shallow.
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.
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#### RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that DUPONT™ ALTACOR™ insecticide contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to DUPONT™ ALTACOR™ insecticide and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of DUPONT™ ALTACOR™ insecticide or other Group 28 insecticides with different groups that control the same pests in a field.
- Make no more than 2 successive applications per generation to the same insect species on a crop. The following application to the target pest(s) must be with an effective product with a different mode of action.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

- For further information or to report suspected resistance contact DuPont Canada at 1-800-667-3925.

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