

(Container)



# Delegate™ WG Insecticide

GROUP	5	INSECTICIDE
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A Naturalyte™ insect control product for control or suppression of many foliage feeding pests infesting listed crops.

## COMMERCIAL

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: Spinetoram 25%  
Wettable granules

REGISTRATION NO. 28778 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 840 g

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

™Trademark of Dow AgroSciences LLC

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

### **DO NOT APPLY BY AIR**

Avoid contact with eyes, skin and clothing. During mixing and loading, clean-up and repair activities wear coveralls over long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. During application, wear long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves.

Do not enter, or allow workers, adults, children or pets to enter into treated areas for 12 hours after application.

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).

## **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.

## **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

## **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to bees exposed to direct treatment, drift, or residues on flowering crops or weeds. **DO NOT** apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

TOXIC to small wild mammals.

May be 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.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

### **STORAGE**

Avoid freezing. Store in original container in a secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Keep away from food and 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.

**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.

(Booklet)



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## **GENERAL USE PRECAUTIONS**

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC INSECT CONTROL OR CROP DAMAGE.

### **Tank Mixing**

Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label.

## **DIRECTIONS FOR USE**

Delegate WG Insecticide is derived from the fermentation of *Saccharopolyspora spinosa*. Delegate WG Insecticide is recommended for use in integrated pest management programs and should be applied when scouting indicates that target pest densities have reached the economic threshold. Follow the specific use instructions given in this label to control target pests. Delegate WG Insecticide should be mixed with water and can be applied using ground application equipment only. Any insect control agent can become less effective over time if target insects develop resistance to its mode of action. Adherence to local integrated pest management strategies helps to prolong the usefulness of all insect control products.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE) fine classification. Boom height must be 60 cm or less above the crop or ground.

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.

DO NOT apply by air.

### **Mixing Instructions**

Fill the spray tank one-half full with the amount of clean water required. Start agitation and add the required amount of Delegate WG Insecticide. Continue agitation while filling the spray tank to the required spray volume. Maintain agitation in the spray tank during mixing, loading, and application.

### Application Instructions

Mix the recommended dosage of Delegate WG Insecticide in sufficient water to ensure thorough coverage of the entire plant. Use ground based spray equipment capable of thorough coverage of the target. Orient the boom and the nozzles to obtain uniform crop coverage. Follow manufacturers' recommendations for the ideal nozzle spacing and spray pressure. Attention should be given to sprayer speed and calibration, wind speed, and foliar canopy to ensure adequate spray coverage of Delegate WG Insecticide. Treated field may only be rotated to labeled crops.

### Buffer Zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench, and soil incorporation.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	
Field sprayer <sup>†</sup>	Field crops		10	5	1
Airblast	Stone fruits and grapes	Early growth stage	40	30	2
		Late growth stage	30	25	1

<sup>†</sup>For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

### Insect Pests Controlled with Delegate WG Insecticide

#### Pome Fruit (apple, crabapple, pear, Oriental pear, quince)

Maximum of three applications per year with a minimum treatment interval of 7 days and a preharvest interval of 7 days.

Target Pest	Application Rate Grams of Product Per Hectare	Application Timing
Codling Moth Oriental Fruit Moth	420	For the control of each generation, apply at first egg hatch based on pheromone trap catches and degree days after biofix dates. These pests must be controlled before the larvae penetrate the fruit so early timing is critical. Repeat at 14 day intervals to maintain control depending on pest pressure.

Obliquebanded & Threelined (Pandemis) leafrollers	210-420	For the control of the over wintering (spring) generation, apply when larvae have emerged and are actively feeding but before they roll up in the leaves. Under high insect pressure, an application timed to target the overwintering generation is recommended to reduce summer populations. For control of the summer generation, apply at first egg hatch as determined by monitoring adult moth flights. Repeat in 14 days if monitoring of populations indicate a second application is required. Use the higher rate under high pest pressure and/or larger larvae.
Spotted & Western Tentiform Leafminers	210-420	Apply at egg hatch as determined by monitoring or at the first sign of sap-feeding on the leaves to control leafminers. Use the higher rate under high pest pressure.
Apple Maggot	420	For the suppression of this pest, apply 7-10 days after the first apple maggot fly is caught on yellow scented sticky boards near or in the orchard. Repeat in 14 days if populations warrant.
Plum Curculio	420	For the suppression of this pest, monitor trees along the edge of the orchard or adjacent wild trees for the first sign of feeding damage after bloom. Repeat in 14 days if populations warrant.

### **Asparagus**

For the suppression of asparagus beetle, apply 140-280 grams of product per hectare. Make applications to the asparagus ferns only. Application timing is at egg hatch or to small larvae. Use the higher rate under high insect infestations and/or advanced growth stages of the beetle. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 60 days.

### **Bushberries (highbush and lowbush blueberries)**

For the suppression of blueberry spanworm, apply 100-200 grams of product per hectare. Monitor insect populations to determine application timing. Apply at egg hatch or to small larvae. Use the higher rate for high populations and/or larger larvae. Reapply if populations warrant. Maximum of three applications per year with a minimum re-treatment interval of 6 days and a preharvest interval of 3 days.

### **Caneberries (raspberry, blackberry)**

For the control of obliquebanded leafroller, apply 100-200 grams of product per hectare. Apply at egg hatch or to small larvae. Use the higher rate for high populations and/or larger larvae. Reapply if populations warrant. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 1 day.

### **Cereals (wheat, barley, oats, rye)**

For the control of armyworm, apply 100-200 grams of product per hectare. Scout for the pest with enough regularity to monitor egg laying and egg hatch and treat when thresholds are reached. Applications perform best when timed to coincide with peak egg hatch and/or small larval stage of growth of each generation. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 21 days.

**Cole Crops [brassica leafy vegetables] (broccoli, Chinese broccoli, brussels sprouts, cabbage, Chinese cabbage, Mustard/Chinese cabbage, Napa/Chinese cabbage, cauliflower, cavolo broccolo, kohlrabi, broccoli raab [rapini], Bok Choy/Chinese cabbage, collards, kale, mustard greens, mustard spinach, rape greens)**

For the control of diamondback moth, cabbage looper and imported cabbageworm, apply 140-200 grams of product per hectare. Apply when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications. Use the higher rate for high infestations or advanced growth stages of the target pests. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 1 day.

**Fruiting Vegetables and Okra (eggplant, pepino, bell pepper, chili pepper, non-bell pepper, sweet non-bell pepper, tomatillo, tomato; okra)**

For the control of cabbage looper, apply 140-200 grams of product per hectare. Time the application to coincide with peak egg hatch. Repeat applications based on population monitoring. Use the higher rate for heavy infestations or advanced growth stages of the target pest. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 1 day.

**Grape**

For the suppression of grape berry moth, apply 280 grams of product per hectare. Time the application for egg hatch of each generation. A repeat application may be required if populations of the pest are high and/or woodlots are near the vineyard. Apply in sufficient water to ensure thorough coverage of the foliage. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 7 days.

**Leafy Vegetables (arugula, chervil, garden cress, upland cress, endive, head lettuce, leaf lettuce, orach, parsley, radicchio, spinach, New Zealand spinach, vine spinach, cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, Swiss chard)**

For the control of cabbage looper, apply 140-200 grams of product per hectare. Apply when pest appears targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications. Use the higher rate for heavy infestations or advanced growth stages of the target pests. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 1 day.

**Leaves of Root and Tuber Vegetables (turnip and beet greens)**

For the control of diamondback moth, cabbage looper and imported cabbageworm, apply 140-200 grams of product per hectare. Apply when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications. Use the higher rate for heavy infestations or advanced growth stages of the target pests. Maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 3 days.

**Potatoes**

For the control of Colorado potato beetle, apply 160-240 grams of product per hectare. Time the application for egg hatch or small larvae. Use the higher rate for higher pest pressure or for larger larvae. A repeat application in 7 to 14 days may be necessary depending on pest pressure.

For the control of European corn borer, apply 160 grams of product per hectare. Monitor egg laying and egg hatch to determine application timing. Time the application to coincide with peak egg hatch.

Maximum of three applications per year with a minimum re-treatment interval of 7 days and a pre-harvest interval of 7 days.

**Root Vegetables (carrot, horseradish, radish, Oriental radish, rutabaga, turnip)**

For the control of diamondback moth, cabbage looper and imported cabbageworm, apply 140-200 grams of product per hectare. Apply when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications. Use the higher rate for heavy infestations or advanced growth stages of the target pests. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 3 days.

**Soybean**

For the control of armyworm, apply 100-200 grams of product per hectare. Time the initial application to target small larvae and use sufficient spray volume to ensure good coverage. Use the higher rate for heavy infestation and/or difficult spray coverage situations. Maximum of three applications per year with a minimum re-treatment interval of 5 days and a preharvest interval of 28 days.

**Stone Fruit (apricot, sweet cherry, sour cherry, nectarine, peach, plum, chickasaw plum, damson plum, Japanese plum, prune)**

For the control of Oriental fruit moth, apply 420 grams of product per hectare. Apply at first egg hatch of each generation based on pheromone trap catches and degree days after biofix dates. Repeat at 14 day intervals if required.

For the control of obliquebanded and threelined leafrollers, apply 210-420 grams of product per hectare. Apply at first egg hatch as determined by monitoring adult moth flights. Repeat in 14 days if monitoring of populations indicate a second application is required. Thorough coverage is necessary for optimal control. Use the higher rate for high pest pressure and/or larger larvae.

For cherries, plums and prunes: Maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 7 days.

For peaches, nectarines, and apricots: Maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 14 days.

**Strawberry**

For the suppression of thrips, apply 200-280 grams of product per hectare. Monitor insect population to determine when initial application is required. A three to four day re-treatment schedule may be necessary for thrips if there is a heavy pest pressure or if the pest population is increasing rapidly. Maximum of three applications per year with a minimum re-treatment interval of 3 days and a preharvest interval of 1 day.

**Resistance Management Recommendations**

For resistance management, please note that Delegate WG Insecticide contains a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Delegate WG Insecticide and other Group 5 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 Delegate WG Insecticide or other Group 5 insecticides with different groups that control the same pests in a field.
- 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca)

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# For Emergency Use Only

Dow AgroSciences Canada Inc. Suite 2100, 450 – 1 Street S.W. Calgary, Alberta T2P 5H1

## Delegate\* WG Insecticide

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For sale and use only in British Columbia from June 1, 2010 until October 31, 2010 for Control of Spotted Wing Drosophila on Stone Fruit Crop Group, Grape, Blueberry, Caneberry including Raspberry, and Strawberry

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TOXIC to small wild mammals.

May be 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.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

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**Delegate WG Insecticide for the control of Spotted Wing Drosophila on Stone Fruit Crop Group, Grape, Blueberry, Caneberry including Raspberry, and Strawberry in British Columbia**

**DIRECTIONS FOR USE**

Read and understand the entire label before using this product. Mix the recommended dosage of Delegate WG Insecticide in sufficient water to ensure thorough coverage.

**HOST/RATE/APPLICATION**

**Stone fruit including apricot, cherry, nectarine, peach, plum and prune**

Apply Delegate WG Insecticide at the rate of 420 grams of product per hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of 7 days. Preharvest interval of 7 days for cherries, plums and 14 days for peach, nectarine and apricot.

**Grape**

Apply Delegate WG Insecticide at the rate of 280 grams of product per hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of 5 days and preharvest interval of 7 days.

**Blueberry**

Apply Delegate WG Insecticide at the rate of 200 grams of product per hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of 6 days and preharvest interval of 3 days.

**Caneberry including raspberry**

Apply Delegate WG Insecticide at the rate of 200 grams of product per hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of three days and preharvest interval of 1 day.

**Strawberry**

Apply Delegate WG Insecticide at the rate of 280 grams of product per hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of 3 days and preharvest interval of 1 day.

**Timing**

Application should be based on the presence of adult pests (flies) as determined by local monitoring. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds.

**Resistance Management Recommendations**

For resistance management, please note that Delegate WG Insecticide contains a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Delegate WG Insecticide and other Group 5 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 Delegate WG Insecticide or other Group 5 insecticides with different groups that control the same pests in a field.
- 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.
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