Dow AgroSciences

Delegate™ Insecticide

GROUP	5	INSECTICIDE

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 - bulk

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

PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN
DO NOT APPLY BY AIR
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.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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 HAZARDS
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 non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

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.

STORAGE
Avoid freezing. Store in original container in a secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. To prevent contamination store this product away from food or feed.

DISPOSAL
Recyclable Containers:
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.

Returnable Containers:
Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

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
In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Dow AgroSciences Canada Inc at 1-800-667-3852 or www.dowagro.ca for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Dow AgroSciences Canada Inc.

DIRECTIONS FOR USE
Delegate Insecticide is derived from the fermentation of *Saccharopolyspora spinosa.* Delegate 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 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.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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 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 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 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).

Method of Application	**Crop**		**Buffer Zones (metres) Required for the Protection of:**
			Terrestrial Habitat
Field sprayer	Field crops		1
Airblast	Stone fruits and grapes	Early growth stage	2
		Late growth stage	1
	Highbush blueberry	Early growth stage	1
		Late growth stage	1
	Tree Nuts	Early growth stage	2
		Late growth stage	1

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

Insect Pests Controlled with Delegate 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 indicates 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 control of blueberry flea beetle, apply 200 grams of product per hectare. Begin application when flea beetles are in the early larval stage. Monitor insect populations to determine if an additional application is required.

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, cavalo 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 indicates 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.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assumes all risks related to performance and crop tolerance arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described on this label.

DIRECTIONS FOR USE

POME FRUIT
For the control of fruittree leafroller and European leafroller, monitor egg masses to determine the time of hatching. Begin scouting at green tip to 15 millimetre green bud stage. Apply Delegate at egg hatch.

For the control of eyespotted bud moth, apply Delegate after the insect begins to feed actively at the green tip to calyx stage. An application timed to target the spring generation is recommended to reduce summer populations. For the control of the summer generation of bud moth, apply at first egg hatch as determined by monitoring.

For the control of the above pests, apply 210 to 420 g/ha of Delegate in sufficient water for thorough coverage. Repeat application at a 14 day interval if monitoring of populations indicates a second application is required. Use the higher rate under high pest pressure and/or larger larvae.

Apply a maximum of three applications per year. Do not apply within 7 days to harvest.

HIGHBUSH BLUEBERRY (bushberries)
For the control of oblique banded leafroller and winter moth on highbush blueberries, apply 100 to 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.

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).

Method of Application	**Crop**		**Buffer Zones (metres) Required for the Protection of:**
			Terrestrial Habitat
Airblast	Highbush blueberry	Early growth stage	1
		Late growth stage	1

LOWBUSH CRANBERRY

For the control of blackheaded fireworm and Sparganothis fruitworm or the suppression of cranberry tipworm, apply 420 grams of product per hectare. Target eggs at hatch or small larvae. Monitoring is critical for proper timing of application. Repeat applications as determined by further monitoring of pest pressure. Maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 21 days. Apply in a minimum of 500 L water per hectare. To reduce the potential for resistance development in target species, do not make more than two consecutive applications of Group 5 insecticides (for example, spinetoram and spinosad). If additional treatments are required after two consecutive applications of a Group 5 insecticide, rotate to another class of registered insecticide for at least one application.

Delegate Insecticide may be applied to lowbush cranberry by chemigation. For application by chemigation, read the section below.

Directions for Chemigation

DO NOT apply Delegate by chemigation to other crops listed on this label. Delegate Insecticide may be applied through a solid set overhead sprinkler irrigation system that will apply water uniformly and within the confines of a closed perimeter of dykes. Do not apply this product through any other type of irrigation system. Sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units are not recommended. Non-uniform distribution of treated water may reduce effectiveness or result in illegal pesticide residues on the crop.

Proper calibration of the chemigation system is essential to deliver the desired rate per hectare in a uniform manner and to minimize wash-off time. If you have questions about calibration, contact the equipment manufacturer or other expert.

Equipment Requirements

- The system must contain an air gap, or approved backflow prevention device, or approved functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow unless the water is from a man-made self-contained source on private land.
- The pesticide injection pipeline must contain a functional, automatic quick-closing check valve or one-way valve to prevent the flow of fluid back toward the injection pump. A secondary containment system around the injection port area must be in place.
- The pesticide injection pipeline must also contain a functional, normally closed, valve located on the intake side of the injection system to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection when the water pressure drops or water flow stops. Alternatively, in the absence of such an automatic system, the injection procedure must be continuously monitored by an operator who is able to manually shut off pesticide injection under the same circumstances.
- Systems must use a metering device, such as a positive displacement injection pump (or flow meter on eductor) effectively designed and compatible with pesticides and capable of being fitted with a system interlock.
- The tank holding the insecticide mixture should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injection point.
- To insure uniform mixing of the insecticide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so the turbulence created at those points will assist in mixing. The injection point must be located after all back-flow prevention devices on the water line unless the water is from a man-made self-contained source on private land.

Precautions

- **DO NOT** connect an irrigation system used for pesticide application to a public water system unless the required safety devices for public water systems are in place. Specific local regulations may apply and must be followed.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system and shall shut the system down to make necessary adjustments should the need arise.
- **DO NOT** apply when wind speed causes non-uniform distribution.
- **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 prescribed American Society of Agricultural Engineers (ASAE) fine classification. Applications must be conducted WITHOUT the use of end guns.
- **DO NOT** allow spray pattern to exceed the enclosed bed area.

TREE NUTS GROUP CROP GROUP 14-11 (except pine nuts): almond, beech nut, butternut, chestnut, chinquapin, filbert (hazelnut), hickory nut, pecan and walnut

Codling moth: For the control of each generation, apply 420 g product per hectare at first egg hatch based on pheromone trap catches and degree days after biofix dates. This pest must be controlled before the larvae penetrate the nut so early timing is critical. Repeat at 14 day intervals to maintain control depending on pest pressure.

Obliquebanded and Threelined leafrollers: Apply 210-420 g product per hectare. 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. Use the higher rate under high pest pressure and/or when larger larvae are present. Repeat application in 14 days if required based on population monitoring.

European and Fruittree leafrollers: Apply 210-420 g product per hectare. Apply when larvae have emerged and are actively feeding but before they roll up in the leaves. Use the higher rate under high pest pressure and/or when larger larvae are present. Repeat application in 14 days if required based on population monitoring.

Walnut and Butternut curculio: For the suppression of these pests, apply 420 g/ha. Monitor trees along the edge of the orchard or adjacent wild trees and apply at the first sign of feeding damage after bloom. Repeat in 14 days if populations warrant.

Walnut husk fly: For the suppression of this pest, apply 420 g/ha. Apply 7-10 days after the first walnut husk fly is caught on yellow scented sticky boards near or in the orchard. Repeat in 14 days if populations warrant.

Apply a maximum of three applications per year. Do not apply within 14 days to harvest.

BULB VEGETABLES CROP GROUP 3: garlic, great-headed (elephant) garlic, leek, dry bulb onion, green onion, Welsh onion and shallot

For suppression of onion thrips, apply 200 to 336 grams of product per hectare in recommended water volume of 300 to 500 litres of water per hectare with sufficient pressure to ensure the spray solution penetrates into the leaf axils. Apply when onion thrips first appear targeting eggs at hatch and small nymphs.

For suppression of leek moth, apply 200 to 336 grams of product per hectare in recommended water volume of 300 to 500 litres of water per hectare with sufficient pressure to ensure the spray solution penetrates into the leaf axils. Apply one week after peak pheromone trap capture targeting eggs at hatch or small larvae.

Use the higher rates when insect pressure is high and/or insects are in an advanced growth stage. After application, monitor populations to determine if re-treatment is required. The minimum re-treatment interval is 7 days. Do not use more than two consecutive applications of Group 5 insecticides. Rotate to another class of effective insecticides for at least one application.

Apply a maximum of 3 applications per year with 7-10 days between applications. Do not apply within 3 days to harvest.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

DIRECTIONS FOR USE

APPLE

For the control of dogwood borer and to reduce the numbers of apple clearwing moth, apply 420 grams of Delegate Insecticide. Use spray volume at 1500-2000 L/ha. Using a handgun or backpack sprayer, direct the spray to cover the lower trunk of the tree, particularly the graft union and any pruning cuts. Thorough coverage is essential.

Apply 1-2 applications at a 14 day interval targeting the 1st instar larvae stage (in-season/summer).

Apply a maximum of two applications per year. Do not apply within 7 days to harvest.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

CHERRIES
Cherry fruit fly: For the suppression of cherry fruit fly on cherries apply 420 g of product per hectare. Apply within 5 days of first fly capture as determined by monitoring.

Apply a maximum of three applications per year. Allow a minimum of 7 days between applications if monitoring indicates that repeat applications are required. Do not apply within 7 days to harvest.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

STONE FRUIT (apricot, sweet cherry, sour cherry, nectarine, peach, plum, chicksaw plum, damson plum, Japanese plum, prune)

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 freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop		Buffer Zone (metres) Required for the Protection of:		
			Freshwater Habitat of Depth:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	
Airblast	Stone fruits	Early growth stage	40	30	2
		Late growth stage	30	25	1

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

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

For control of spotted wing *Drosophila*, apply Delegate 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, prunes and 14 days for apricot and 1 day for peaches and nectarines.

Refer to main Delegate insecticide product label for Buffer Zone information, additional details and instructions.

COLE CROPS [brassica leafy vegetables] (broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese cabbage, Mustard/Chinese cabbage, Napa/Chinese cabbage, cauliflower, cavalo broccolo, kohlrabi, broccoli raab [rapini], Bok Choy/Chinese cabbage, collards, kale, mustard greens, mustard spinach, rape greens)

For the suppression of onion thrips, apply 200 to 336 grams of product per hectare. Recommended water volume for thorough coverage is 300 to 500 litres of water per hectare.

Apply when pests first appear before populations build up. Heavy infestations will require repeat applications. Repeat in 7 to 10 days if required by monitoring insect populations. Use the higher rate for high infestations or advanced growth stages of the target pests.

Apply a maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 1 day.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

LEAFY VEGETABLES (Crop Group 4): Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Celtuce, Chervil, Chinese celery, Chrysanthemum (edible-leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel (sweet anise, sweet fennel, Finocchio), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)], Swiss chard.

For the suppression of onion thrips, apply 200 to 336 grams of product per hectare. Apply in a recommended water volume of 300 to 500 litres of water per hectare.

Apply when onion thrips first appear targeting eggs at hatch and small nymphs. Heavy infestations will require repeat applications. Repeat in 7-10 days if monitoring indicates the need. Use the higher rate for high infestations or advanced growth stages of the target pests.

Apply a maximum of three applications per year with a minimum re-treatment interval of 7 days and a preharvest interval of 1 day.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

BASIL, DILL

For suppression of thrips, apply 200-280 grams of Delegate per hectare in sufficient water volume for complete coverage of the plant foliage. Applications should be timed at egg hatch or small nymphs.

For control of cabbage looper, apply 140-200 grams of Delegate per hectare in sufficient water volume for complete coverage of the plant foliage. Applications should be timed at egg hatch or small larvae.

Use the higher rates for heavy infestations or for advanced growth stages of the target pests. Repeat applications based on monitoring of insect populations.

Apply a maximum of 3 applications per year with 7-10 days between applications. Do not apply within 1 day of harvest for basil and do not apply within 14 days of harvest for dill seed.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

GINSENG

For control of leafrollers, apply 200 grams of Delegate per hectare in sufficient water volume for complete coverage of the plant foliage. Applications should be timed at egg hatch or small larvae. Repeat applications based on monitoring of insect populations.

Apply a maximum of 3 applications per year with a minimum of 5 days between applications. Do not apply within 3 days of harvest.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

SWEET CORN, SEED CORN, POPCORN

For the control of European corn borer and Western bean cutworm, apply Delegate at the rate of 120 to 210 grams of product per hectare in sufficient water volume for complete coverage of the plant foliage. Applications should be timed at egg hatch or to small larvae. Use the higher rate for heavy infestations and for large larvae. Repeat applications based on monitoring of insect populations.

Apply a maximum of 3 applications per year with a minimum of 5 days between applications. Do not apply within 1 day of harvest for sweet corn and seed corn. Do not apply within 28 days of harvest for popcorn. FOR SWEET CORN, POPCORN AND SEED CORN: Do not apply within 28 days of stover harvest or within 7 days of forage harvest.

Refer to the main Delegate Insecticide product label for Buffer Zone information, additional details and instructions.

BERRIES (CROP SUBGROUP 13-07A, 13-07B AND 13-07G)

Bushberries (Crop Subgroup 13-07B; except highbush cranberries and lingonberries): highbush blueberry, lowbush blueberry, black currant, red currant, elderberry, gooseberry, huckleberry, Aronia berry, buffalo currant, Chilean guava, European barberry, edible honeysuckle, jostaberry, Juneberry (Saskatoon berry), native currant, salal, sea buckthorn, cultivars, varieties and/or hybrids of these.

For the control of spotted wing Drosophila apply Delegate Insecticide at the rate of 315-420 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 and preharvest interval of 3 days.

Caneberries (Crop Subgroup 13-07A): **blackberry, black and red raspberry, wild raspberry, cultivars, varieties and/or hybrids of these.**

For the control of spotted wing Drosophila apply Delegate Insecticide at the rate of 315-420 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 and preharvest interval of 1 day.

Low growing berry (Crop Subgroup 13-07G; except lowbush blueberries and cranberries): **bearberry, bilberry, cloudberry, lingonberry, muntries, partridgeberry, strawberry, cultivars, varieties and/or hybrids of these.**

For the control of spotted wing Drosophila apply Delegate Insecticide at the rate of 280 grams of product of hectare in sufficient water to ensure thorough coverage. Maximum of three applications per year with a minimum re-treatment interval of 7 days and preharvest interval of 1 day.

Timing: Applications 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.

Do not make more than 2 consecutive applications of Group 5 insecticides (spinosad and spinetoram).

Refer to DIRECTIONS FOR USE for Buffer Zone information.
Refer to the main Delegate Insecticide product label for additional details and instructions.

GREENHOUSE VEGETABLES

Greenhouse cucumber, greenhouse fruiting vegetables (pepper, tomato, eggplant): control of cabbage looper and European corn borer and suppression of exposed western flower thrips
Greenhouse lettuce: control of cabbage looper

For the control of cabbage looper and European corn borer and suppression of exposed western flower thrips apply Delegate Insecticide at the rate of 92 to 132 grams of product per 1000 L of water as a dilute spray. Use the higher rate when insect populations are high and/or insects are large. Apply when cabbage looper or European corn borer eggs hatch and first instar larvae are present or when western flower thrips first appear. Do not apply by a fogger or mister. Monitoring is critical for the proper timing of the insecticide.

Repeat applications as determined by further monitoring of pest pressure.

Three applications of Delegate Insecticide can be used per crop cycle, with a minimum of 7 days between applications. Do not apply within 2 days of harvest.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

Refer to DIRECTIONS FOR USE for Buffer Zone information.
Refer to the main Delegate Insecticide product label for additional details and instructions.

Resistance Management Recommendations
For resistance management, please note that Delegate Insecticide contains a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Delegate 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 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

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.

051215

Label Code: CN-28778-012-E
Replaces: CN-28778-011-E

Specimen Label notes:
Addition of minor uses for the control of cabbage looper on greenhouse lettuce, control of cabbage looper and European corn borer and the suppression of western flower thrip on greenhouse cucumber and greenhouse fruiting vegetables in Canada, control of Spotted Wing Drosophila on Berries.