

GROUP	28	INSECTICIDE
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ACELEPRYN® Insecticide

SUSPENSION

COMMERCIAL

For use on turfgrass and on greenhouse and outdoor ornamentals against listed pests.

FOR USE BY COMMERCIAL APPLICATORS ONLY

ACTIVE INGREDIENT:

Chlorantraniliprole 200 g/L

Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative or 1,2-benzisothiazolin-3-one at 0.035% plus 2-bromo-2-nitropropane-1,3-diol at 0.033% as preservatives.

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. **28980**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 - 100 LITRES**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

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.

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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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

Treat symptomatically. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

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 sod farms during the restricted entry interval (REI) of 12 hours.
- Do not enter or allow people to enter all other treated areas until sprays have dried.
- Apply only when the potential for drift to non-target areas of human habitation or areas of

human activity is minimal, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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.

DO NOT apply by air.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. To prevent contamination store this product away from food or feed.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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- 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 sod farms during the restricted entry interval (REI) or 12 hours.
- Do not enter or allow people to enter all other treated areas until sprays have dried.
- Apply only when the potential for drift to non-target areas of human habitation or areas of

human activity is minimal, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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.

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STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. To prevent contamination store this product away from food or feed.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

GENERAL INFORMATION

ACELEPRYN® Insecticide is a liquid formulation to be mixed in water and applied to turf and to greenhouse and outdoor ornamentals against listed pests.

Use sufficient water to obtain thorough, uniform coverage.

DIRECTIONS FOR USE

Application is limited to agricultural crops only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas, taking into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

APPLICATION TIMING (Turfgrass)

Annual Bluegrass Weevil: ACELEPRYN Insecticide should be applied when overwintered adult annual bluegrass weevils are observed in late April or early May to prevent damage from larvae in late-May and June. An application of ACELEPRYN Insecticide at this time will also provide European chafer larvae and Japanese beetle larvae control. The higher rates listed below may be required for applications made after mid-May.

Bluegrass billbug: Apply ACELEPRYN Insecticide when overwintered adult bluegrass billbug are first observed. This will usually occur in late April or early May in regions with cool-season turfgrasses.

Black cutworms, sod webworm, and fall armyworm: ACELEPRYN Insecticide will provide control of these pests in turfgrass. To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the area being treated is maintained at a mowing height of greater than one inch, then the higher rate listed below may be required during periods of high pest pressure.

Chinch Bugs: For suppression of chinch bugs, apply ACELEPRYN Insecticide before eggs hatch.

European Crane Fly Larvae: Apply ACELEPRYN Insecticide between September and November to control European crane fly larvae in turfgrass. The higher labelled rate may be required to achieve control when applications are made in late fall.

Black turfgrass ataenius beetle larvae, European chafer larvae, Japanese beetle larvae, and June beetle larvae: Apply ACELEPRYN Insecticide from early April to early September for preventative and early curative control of Japanese beetle larvae, European chafer larvae, June beetle larvae, and Black turfgrass ataenius beetle larvae. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. The higher rate listed for control may be required for early season (April and May) applications where a long residual is required or in late August or early September when less sensitive mid-instar larvae are present at the time of application. Irrigate turf immediately after application or allow rainfall to move the product into the soil.

Applications should not be made when the soil is saturated with water because adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this

condition. Optimal results will be achieved if the product is irrigated into the turf immediately after application.

TURF

Spray Volume for Turf: Apply in a minimum finished spray volume of 200 to 1600 L/ha (2 to 16 L/100 m²) by ground.

SITE	PEST	RATE ACELEPRYN Insecticide/HA	RATE ACELEPRYN Insecticide/100m ²	SPECIFIC DIRECTIONS
TURF	Black turfgrass ataenius larvae European chafer larvae Japanese beetle larvae June beetle larvae	560 to 880 mL	5.6 to 8.8 mL	Thorough coverage is important to obtain optimum control
	Fall Armyworm Black cutworm Sod webworm	145 to 290 mL	1.45 to 2.9 mL	
	Bluegrass Billbug Chinch bug suppression European crane fly larvae	580 to 1125 mL	5.8 to 11.25 mL	
	Annual bluegrass weevil	880 to 1125 mL	8.8 to 11.25 mL	

RESTRICTIONS AND PRECAUTIONS: Turf

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not exceed a total of 1125 mL of ACELEPRYN Insecticide per hectare per season.
- Wait a minimum of 7 days to retreat.

MIXING INSTRUCTIONS:

Spray equipment must be clean and free of previous pesticide deposits before applying ACELEPRYN Insecticide. Fill spray tank 1/4 to 1/2 full of water. Add ACELEPRYN 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.

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 Engineers (ASAE) 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.

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 (metres) 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
Field sprayer	Turf, outdoor ornamentals		1	1	1	0
Airblast	Outdoor ornamentals	Early growth stage	10	4	1	0
		Late growth stage	5	2	1	0

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta 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 assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

ORNAMENTALS (Greenhouse and Outdoor)**CONTAINER AND FIELD APPLICATION**

INSECTS	Japanese beetle larvae
PRODUCT RATE	0.56 to 0.88 L per ha Or 5.6 to 8.8 mL per 100 m ² Apply in sufficient water to achieve good penetration of the growing media or soil
APPLICATION METHOD	Media or soil drench
APPLICATION INTERVAL	7-14 days
MAXIMUM APPLICATIONS OF PRODUCT PER GROWING CYCLE	1 application per production cycle at the high rate or 2 applications per production cycle at the low rate
APPLICATION DIRECTIONS	Do not exceed 1.125 L product per ha per year (225 gai/ha per year) Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.

OUTDOOR ORNAMENTS (Non-Bearing Pome Fruit Trees)**CONTAINER AND FIELD APPLICATION**

INSECTS	Spotted tentiform leafminer, western tentiform leafminer, European apple sawfly, green fruitworm
PRODUCT RATE	0.250 to 0.375 L per ha Or 2.50 to 3.75 mL per 100 m ²
INSECTS	Obliquebanded leafroller, threelined leafroller, variegated leafroller, eyespotted budmoth, redbanded leafroller, tufted apple budmoth
PRODUCT RATE	0.25 to 0.50 L per ha Or 2.5 to 5.0 mL per 100 m ²

OUTDOOR ORNAMENTALS (Non-Bearing Pome Fruit Trees)	
CONTAINER AND FIELD APPLICATION	
INSECTS	White apple leafhopper (suppression), dogwood borer
PRODUCT RATE	0.375 to 0.50 L per ha Or 3.75 to 5.0 mL per 100 m ²
INSECTS	Japanese beetle (suppression)
PRODUCT RATE	0.50 L per ha Or 5.0 mL per 100 m ²
SPRAY VOLUME (L/ha)	Minimum of 100 L of water per ha
APPLICATION METHOD	Foliar airblast or horizontal boom
APPLICATION INTERVAL	10-14 days for Japanese beetle; 7 days for other listed pests
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	3 applications
APPLICATION DIRECTIONS	<p>For optimum control of European apple sawfly, apply at early petal fall of blossoms, and repeat if needed after petal fall.</p> <p>For optimum control of Green fruitworm, apply at the pink stage of blossoms. Repeat if necessary at petal fall of blossoms.</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 of blossoms. 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 optimum control of Eyespotted bud moth, Redbanded leafroller, Tufted apple bud moth and Variegated leafroller apply when the larvae are active in the pink to petal fall period.</p> <p>For optimum suppression of Japanese beetle, apply when feeding is first observed and repeat in 10-14 days if required.</p> <p>For optimum control of Dogwood borer, apply specified amount as a spray to wet application to the bottom 60 cm of tree trunk, at the first sign of dogwood borer feeding.</p> <p>Do not exceed 1.125 L product per ha per year (225 g ai/ha per year).</p> <p>Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p>

OUTDOOR ORNAMENTALS (Non-Bearing Stone Fruit Trees and *Prunus* spp.)**CONTAINER AND FIELD APPLICATION**

INSECTS	Obliquebanded leafroller, threelined leafroller, redbanded leafroller,
PRODUCT RATE	0.25 to 0.50 L per ha Or 2.5 to 5.0 mL per 100 m ²
INSECTS	Peach twig borer
PRODUCT RATE	0.375 to 0.500 L per ha Or 3.75 to 5.00 mL per 100 m ²
INSECTS	Japanese beetle (suppression)
PRODUCT RATE	0.50 L per ha Or 5.0 mL per 100 m ²
SPRAY VOLUME (L/ha)	Minimum of 100 L of water per ha
APPLICATION METHOD	Foliar airblast or horizontal boom
APPLICATION INTERVAL	10-14 days for Japanese beetle; 7 days for other listed pests
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	3 applications
APPLICATION DIRECTIONS	<p>For optimal control of peach twig borer, use pheromone traps to monitor the male moth activity. Follow local recommendations for thresholds information. For spring/overwintering or first summer generation larvae: Apply within 7 days of first trap catch of adult male moths. 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> <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 of blossoms. 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 optimum control of Redbanded leafroller, apply when the larvae are active in the pink to petal fall period.</p> <p>For optimum suppression of Japanese beetle, apply when feeding is first observed and repeat in 10-14 days if required.</p> <p>Do not exceed 1.125 L product per ha per year (225 g ai/ha per year).</p> <p>Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p>

OUTDOOR ORNAMENTALS (*Brassica* spp.)**CONTAINER AND FIELD APPLICATION**

INSECTS	Imported cabbageworm, cabbage looper, diamondback moth, swede midge
PRODUCT RATE	0.25 L per ha Or 2.5 mL per 100 m ²
SPRAY VOLUME (L/ha)	Minimum of 100 L of water per ha
APPLICATION METHOD	Foliar airblast or horizontal boom
APPLICATION INTERVAL	7 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	3 applications
APPLICATION DIRECTIONS	<p>For optimum control, apply Hasten™ NT Spray Adjuvant* at an application rate of 0.25% v/v or MSO™ Concentrate with Leci-Tech* at an application rate of 0.5% v/v.</p> <p>Do not exceed 0.75 L product per ha per year (150 g ai/ha per year).</p> <p>Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p>

OUTDOOR ORNAMENTALS**CONTAINER AND FIELD APPLICATION**

INSECTS	Leafminers (<i>L. sativae</i> , <i>L. trifolii</i>)
PRODUCT RATE	0.250 to 0.375 L per ha Or 2.50 to 3.75 mL per 100 m ²
SPRAY VOLUME (L/ha)	Minimum of 100 L of water per ha
APPLICATION METHOD	Foliar airblast or horizontal boom
APPLICATION INTERVAL	7 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	3 applications
APPLICATION DIRECTIONS	<p>Apply when monitoring indicates treatment thresholds have been reached.</p> <p>For optimum control on <i>Brassica</i> spp., apply Hasten NT Spray Adjuvant* at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech* at an application rate of 0.5% v/v.</p> <p>Do not exceed 1.125 L product per ha per year (225 g ai/ha per year).</p> <p>Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p>

OUTDOOR ORNAMENTALS (<i>Viburnum</i> spp.)	
CONTAINER AND FIELD APPLICATION	
INSECTS	Viburnum leaf beetle
PRODUCT RATE	31.25 to 62.5 mL per 100 L of spray solution
SPRAY VOLUME (L/ha)	Minimum of 100 L of water per ha
APPLICATION METHOD	Foliar airblast or horizontal boom
APPLICATION INTERVAL	Applications must be a minimum of 7 days apart. Monitor pest populations and make additional applications if required.
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	3 applications
APPLICATION DIRECTIONS	Apply as a spray to runoff. Do not exceed 1.125 L product per ha per year (225 g ai/ha per year). Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test ACELEPRYN Insecticide on a small portion of the crop to ensure that a phytotoxic response will not occur.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ACELEPRYN Insecticide contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to ACELEPRYN 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 ACELEPRYN Insecticide or other Group 28 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 and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.