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GROUP	3	INSECTICIDE
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decis® 5 EC INSECTICIDE

FOR SALE FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA

COMMERCIAL

REGISTRATION NO. 22478 PEST CONTROL PRODUCTS ACT

GUARANTEE: deltamethrin 50 g/L



TRIPLE RINSE

SEVERE EYE AND SKIN IRRITANT

READ THE LABEL BEFORE USING

NET CONTENTS: 1, 2, 10, 200 Litres and Bulk

BAYER CROPSCIENCE INC.  
Suite 200  
160 Quarry Park Blvd. S.E.  
Calgary, Alberta  
T2C 3G3

1-(888) 283-6847

IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE  
NUMBER, 1-800-334-7577 (24 HOURS A DAY)

decis® is a registered trademark of Bayer CropScience.

decis 5 EC Insecticide

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For More Information, Contact:

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## GENERAL INFORMATION

### Section 1: The Product

For use in Eastern Canada and British Columbia.

decis 5 EC Insecticide is not a systemic product.

decis 5 EC Insecticide controls insects through contact and/or ingestion.

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 website at: [www.croplife.ca](http://www.croplife.ca).

## SAFETY AND HANDLING

### Section 2: Precautions, Protective Clothing and Equipment

#### PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Fatal or poisonous if swallowed or absorbed through the skin. May be fatal if inhaled. Severely irritating to the eyes and skin. Do not get in eyes, on skin or on clothing. Avoid breathing vapour or spray mist. Wear Protective Clothing and Equipment:

- Wear protective clothing such as coveralls, a long-sleeved shirt, chemical resistant gloves and apron, eye protection (goggles or face shield) and respirator during mixing, loading and clean-up.
- Change clothing daily and wash, separate from other laundry, before reusing. Clean protective equipment daily.
- **DO NOT** handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. **ALWAYS** wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. **DO NOT USE LEATHER OR CLOTH GLOVES.** Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking.

### Section 3: First Aid and Toxicological Information

#### FIRST AID:

**INGESTION:** If swallowed, contains petroleum distillates. 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

**EYE CONTACT: DANGER - CORROSIVE TO EYES.** If splashed 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.

**SKIN CONTACT:** In case of skin contact, 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.

**INHALATION:** 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.

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

#### TOXICOLOGICAL INFORMATION:

MEDICAL PERSONNEL SHOULD CONTACT THE BAYER CROPSCIENCE MEDICAL INFORMATION SERVICES TOLL-FREE 1-800-334-7577.

This product contains XYLENE. Treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration. Vomiting may cause aspiration pneumonia.

#### Section 4: Environmental Precautions and Information

**TOXIC TO FISH AND AQUATIC ORGANISMS.** Over spray or drift into aquatic areas must be avoided. This product contains a petroleum distillate that is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

**TOXIC TO BEES AND OTHER BENEFICIAL INSECTS.** Avoid spraying when bees are foraging.

Do not apply where streams, lakes, ponds or water used by livestock or for domestic purposes may be contaminated. Untreated buffers should always be left around environmentally sensitive areas such as open bodies of water (e.g. rivers, streams, lakes, ponds), wetlands, houses, and farm buildings. The depth of the buffer depends on the method of application. For ground application, leave a 15-metre buffer. For aerial application, leave a 100-metre buffer. If a 100-metre buffer zone cannot be maintained during aerial application, then application by ground only must be followed. In these cases the 15-metre buffer zone must be observed.

Avoid application when temperature inversions are prevailing.

#### Section 5: Storage

Keep away from fire or open flame or other sources of heat.

CANNOT be stored below freezing.

If stored for 1 year or longer, shake well before using.

Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.

Do not use or store in or around the home.

Keep in original container during storage.

#### Section 6: Disposal

#### WASTE DISPOSAL:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, irrigation canals and desirable vegetation.

#### CONTAINER DISPOSAL:

1. Triple or pressure-rinse the emptied container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions 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.

#### DIRECTIONS FOR USE

Section 7: Application Instructions and Cautions

#### APPLICATION INSTRUCTIONS:

Use sufficient water to ensure thorough, uniform coverage over entire plant surface for optimum insect control. More water may be required when dense foliage is present and depending on the type of spray equipment used.

Thorough wetting of all plants is essential for good results.

Apply decis 5 EC Insecticide by air to only the crops specified in this label.

If using aerial application equipment, refer to Aerial Application (Section 7), and Environmental Precautions (Section 4) for instructions and cautions to follow.

#### SPECIAL INSTRUCTIONS FOR USE OF decis 5 EC Insecticide ON HIGH ORGANIC (MUCK) SOILS:

In soils with high organic content (muck soils), special care in the application of decis 5 EC Insecticide is necessary. Apply no more than 200 mL of product per hectare. decis 5 EC Insecticide should be applied only **ONCE** during each crop year on muck soil, prior to August 1.

#### AERIAL APPLICATION:

Decis 5 EC Insecticide may be applied by aircraft to Wheat, Barley, Oats, Flax, Canola (Rapeseed), Mustard, Potatoes, Sunflowers and Sweet Corn.

#### DIRECTIONS FOR USE:

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and

understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

#### AERIAL USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the Basic Knowledge *Requirements for Pesticide Education in Canada: Applicator Core* and *Aerial Module*, developed by CAPCO. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

#### AERIAL OPERATOR PRECAUTIONS:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

#### PRODUCT SPECIFIC PRECAUTIONS:

Follow directions in Section 8 for rates, timing of application and harvest restrictions.

**EXERCISE EXTREME CAUTION DURING THE AERIAL APPLICATION OF ANY INSECTICIDE, HERBICIDE OR FUNGICIDE.** Drift of pesticides is not always visible with the human eye. Small droplets may drift into sensitive areas without obvious signs of danger. Follow these directions precisely!

When applying decis 5 EC Insecticide by aircraft, uniform spray coverage is essential.

To achieve uniform spray coverage, the use of spray nozzle tips and spraying pressures which provide a small droplet size (150-250 micron range) is recommended.

Apply decis 5 EC Insecticide in a minimum of 11-22 litres of water per hectare at a pressure of at least 200 kPa. For best results, use sufficient water to ensure complete coverage.

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor, your provincial agricultural representative.

**DO NOT USE RAINDROP NOZZLES.**

Ensure that all circuits (pipes, booms, etc.) have the correct decis 5 EC Insecticide/water concentration before application is started.

DO NOT apply decis 5 EC Insecticide by aircraft when the wind speeds exceed 8 km/h.

**APPLICATION PRECAUTIONS:**

See Section 4 for environmental precautions (buffer zones).

AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (over 25°C) as control will be reduced. Best control will be achieved when decis 5 EC Insecticide is applied during the cooler portions of the day (normally early morning or at dusk).

USE ONLY FOR RECOMMENDED PURPOSES AT RECOMMENDED RATES.

**Section 8: Crops, Insects, Rates, and Timing**

CROP	INSECTS	RECOMMENDATIONS	RATE
<b>GROUND</b>			
Alfalfa (seed production only)	Alfalfa Weevil,	Apply when insects are present or	200-250 mL/ha in
	Lygus Bug	according to provincial recommendations. Use the higher rate when the Alfalfa Weevil is present.	200-300 L/ha of water
DO NOT apply more than once per year.			
DO NOT apply within 20 days of harvest.			
<b>GROUND</b>			
Apples	Apple Aphid	Apply according to provincial recommendations, usually 17-21 days after petal fall (calyx).	200 mL/ha (68 mL /1000 L of water)
	Apple Brown Bug	Apply when bugs are present. Follow provincial recommendations	200 mL/ha (68 mL /1000 L of water)
	Mullein Plant Bug		
	Apple Leaf Curling Midge	Apply when first signs of damage are visible.	200-250 mL/ha (68-85 mL/1000 L of water)
	Codling Moth	Apply 7 to 10 days after petal fall (calyx). Repeat sprays at 10 day intervals to a maximum of 3 applications.	200-250 mL/ha (68-85 mL/1000L of water)
	Tentiform Leaf Miner (adults only)	Apply when adults are first visible. Thorough coverage on trunk and scaffold limbs is recommended. decis 5 EC Insecticide is not effective in controlling eggs of mining larvae and should be used to prevent re-infestation of adult generations.	250 mL/ha (85 mL /1000 L of water)
	Winter Moth	Apply when first signs of feeding are	150 mL/ha (50 mL

	visible.	/1000 L of water)
Fruit Tree	Apply when first signs of feeding are	200 mL/ha (68 mL
Leafroller,	visible.	/1000 L of water)
Oblique Banded		
Leafroller,		
Pale Apple		
Leafroller,		
Eye Spotted		
Budmoth		
White Apple	Spray when large numbers of adults are	200 mL/ha (68
Leafhopper	present.	mL/1000 L of water)
Oriental Fruit	Begin applications when treatment	200-250 mL/ha in
Moth*	threshold (peak egg hatch) has been	3000 L of water
	reached as indicated by monitoring with	
	pheromone traps in conjunction with	
	degree days. Consult your local extension	
	specialist for advice. Adequate spray	
	coverage is essential for optimum control.	
	The emergence of 3 <sup>rd</sup> or 4 <sup>th</sup> generation of	
	OFM is less synchronized than the 1 <sup>st</sup> or	
	2 <sup>nd</sup> generations. Alternate with other	
	insecticides for different generations of	
	OFM to delay the insecticide resistance	
	development in the pest populations.	

DO NOT apply when apple trees are in bloom.

DO NOT apply more than 3 times per year.

DO NOT apply within 1 day of harvest.

Repeated applications are not advised when integrated pest management is in effect, because severe reductions of beneficial arthropods will result.

\*DO NOT apply more than once every 12 days.

\*Applications timed for other pests may reduce the number of applications required for this pest.

\*For use in Ontario only.

		<b>GROUND</b>	
Asparagus	Asparagus	First application should be in spring prior	200 mL/ha in
	Beetle	to egg laying. Application must take place	200-500 L/ha of
		after the spears have been cut. Repeat as	water
		needed.	

DO NOT apply to asparagus prior to the cutting of spears.

		<b>GROUND</b>	
Blueberries	Leaf Tier	Apply in the bud cluster stage (just prior	150 mL/ha
		to leaf bud opening).	
	Bruce	Apply when insects or damage first	125 mL/ha
	Spanworm	appears. Avoid spraying during	
		flowering.	



Apply to lowbush blueberries in 100-200 litres of water per hectare.  
 Apply to highbush blueberries in 1200-1500 litres of water per hectare.  
 DO not apply within 14 days of harvest.

Broccoli,		GROUND	
Brussels Sprouts,	Imported Cabbageworm,	Apply when insects are present or signs of insect feeding are visible. Repeat every 10 days as necessary.	150-200 mL/ha in 350-550 L/ha of water
Cabbage,	Cabbage		
Cauliflower	Looper, Diamondback Moth		
	Flea Beetle (Cabbage Only)	Apply when insects are present, and actively feeding. Repeat every 10 days as necessary. Under severe pressure, application should also be made to a 15-metre strip along fence rows around the field.	150-200 mL/ha in 350-550 L /ha of water

DO NOT apply to adjacent unregistered crops.  
 DO NOT apply within 1 day of harvest to Brussels Sprouts.  
 DO NOT apply within 3 days of harvest to Broccoli, Cabbage or Cauliflower.  
 May be used once per season on high organic (muck) soils.  
 To minimize residues, apply before August 1. See Section 7 for special instructions for use of DECIS 5 EC on high organic (muck) soils.

Canola (Rapeseed), Mustard	Flea Beetle	GROUND	
		Apply when insects are present. decis 5 EC Insecticide controls only those insects present. Application should be made when the beetles are actively feeding. Under severe insect pressure, application should also be made to a 15-metre strip along fence rows around the field.	100-150 mL/ha in 100 L/ha of water

DO NOT apply to adjacent unregistered crops

	Flea Beetle	AERIAL	
		Apply once per season by air if required. Read instructions for Aerial Application in Section 7. Observe 100-metre buffer between crop and any body of water when applying by air (See Section 4.)	100-150 mL/ha in 11-22 L/ha of water

DO NOT apply within 14 days of harvest.

Corn (field and	European Corn Borer	GROUND	
		Apply when egg masses begin to hatch, but no later than when the first pinhole	250-300 mL/ha in at least 240 L of water

seed) feeding is seen on the leaves. Direct spray per ha into the whorl of the plant. Repeat at 5-8 day intervals. For control of second generation, direct spray at ear zone.

DO NOT apply more than 3 times per year.

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The DIRECTIONS FOR USE of this product for uses described below were developed by persons other than Bayer CropScience Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Bayer CropScience 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 crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Bayer Crop Science Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

		<b>GROUND</b>	
Corn (field and seed)	Western Bean Cutworm	Application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Repeat at 5-8 day intervals	250-300 mL/ha in at least 240 L of water per ha

DO NOT apply more than 3 times per year.  
Do not apply within 1 day of harvest.

		<b>GROUND</b>	
Corn (sweet)	Western Bean Cutworm	Application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Repeat at 5-8 day intervals	250-300 mL/ha in at least 240 L of water per ha

		<b>AERIAL</b>	
		Read instructions for Aerial Application in Section 7. Observe 100-metre buffer between crop and any body of water. When applying by air. (See Section 4.)	250-300 mL/ha in 11-22 L/ha of water

DO NOT apply more than 2 times per year; only one of which may be by air.  
DO NOT apply within 5 days of harvest.

		<b>GROUND</b>	
Corn (sweet)	European Corn Borer	Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray	250-300 mL/ha in at least 240 L of water per ha

into the whorl of the plant. For control of second generation, direct spray at ear zone. In situations where pest monitoring indicates repeat applications are required, it is recommended that decis 5 EC Insecticide be alternated with other insecticides.

Corn Earworm	Apply when insects are present in the silks. Follow provincial spray calendar recommendations. <b>AERIAL</b>	250-300 mL/ha in at least 240 L/ha of water
European Corn Borer, Corn Earworm	Read instructions for Aerial Application in Section 7. Observe 100-metre buffer between crop and any body of water. When applying by air. (See Section 4.)	250-300 mL/ha in 11-22 L/ha of water.

DO NOT apply more than 2 times per year; only one of which may be by air.  
To minimize residues in high organic (muck) soils apply before August 1. [See Section 7 for special instructions for use of decis 5 EC Insecticide on high organic (muck) soils.]  
DO NOT apply within 5 days of harvest.

**GROUND**

Kale	Cabbage Looper, Diamondback Moth, Imported Cabbageworm, Purplebacked Cabbageworm	Apply when insects are present or signs of insect feeding are visible. Repeat every 10 days or as necessary.	200 mL/ha in 300-400 L of water per ha
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**GROUND**

Onions	Onion Thrip	Apply as foliar spray mid-season at proper thrip threshold.	200 mL/ha in 200-500 L/ha of water
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DO NOT apply more than once per season.  
DO NOT apply within 5 days of harvest.

**GROUND**

CROP SUBGROUP 12-09B: Peaches, Nectarines, Cultivars,	Peach Twig Borer, Oriental Fruit Moth	Application must occur when insect is visibly present.	200 mL/ha (68 mL/1000 L of water)
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varieties  
and/or  
hybrids of  
these

DO NOT apply when peach trees are in bloom.

DO NOT apply more than once per year.

DO NOT apply within 1 day of harvest.

		GROUND	
Pears	Pear Psylla (nymphs & adults)	Apply when the nymphs and adults first appear. Follow calendar recommendations. Repeated applications are not advised where integrated pest management is in effect because severe reductions of beneficial arthropods will result.	350 mL/ha (118mL/ 1000 L of water)
	Pear Psylla over wintering adults - B.C. only	Apply when the insect first appears in the spring.	200 mL/ha (68 mL/ 1000 L of water)
	Oriental Fruit Moth	Begin applications when treatment threshold (peak egg hatch) has been reached as indicated by monitoring with pheromone traps in conjunction with degree days. Consult your local extension specialist for advice. Adequate spray coverage is essential for optimum control. The emergence of 3rd or 4th generation of OFM are less synchronized than the 1st or 2 <sup>nd</sup> generations. Alternate with other insecticides for different generations of OFM to delay the insecticide resistance development in the pest populations.	200-250 mL/ha in 3000 L of water

DO NOT apply more than 3 times per year.

DECIS 5 EC does not control the hard shell of Pear Psylla.

DO NOT apply within 7 days of harvest.

\* DO NOT apply more than once every 12 days.

\* Applications timed for other pests may reduce the number of applications required for this pest.

\* For use in Ontario only.

		GROUND	
Peppers	European Corn Borer	Apply when egg masses begin to hatch or when first signs of insect feeding are evident. Repeat at 5-7 day intervals.	250-300 mL/ha in 200-500 L/ha of water

DO NOT apply more than 3 times per year.

DO NOT apply within 3 days of harvest.

		GROUND	
Potatoes	Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper	Apply when insects are present or signs of insect feeding are evident. Repeat as necessary to a maximum of 3 applications per year. Use the higher rate under severe infestations.	100-150 mL/ha in 200-500 L/ha of water
	Potato Flea Beetle	Apply when first signs of insects appear and damage is visible. decis 5 EC Insecticide controls only those insects present. Under severe flea beetle populations application should also be made to a 15-metre strip along fence rows around the field.	100-150 mL/ha in 200-500 L/ha of water
	Potato Aphid, Buckthorn Aphid	Apply when insects are present or signs of insect feeding are visible. Repeat if necessary to a maximum of 2 applications per year. decis 5 EC Insecticide will NOT control Green Peach Aphid.	250 mL/ha in 300-400 L/ha of water
	Tuber Flea Beetle	Apply to control first generation of adult flea beetle. Repeat if necessary	150-200 mL/ha in 600 L of water per ha
	European Corn Borer	Scout for European corn borer egg masses to determine when egg laying and egg hatch is occurring. Apply decis 5 EC Insecticide to coincide with peak egg hatch. A second application 5-7 days later may be required during periods of extended egg-laying. Use the high rate to control heavy infestations.	150-250 mL/ha in 300-500 L/ha of water

DO NOT apply to adjacent unregistered crops

		AERIAL	
Potatoes	Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper, Potato Flea Beetle	Apply up to 2 times per season if required. Read instructions for Aerial Application in Section 7. Observe 100-metre buffer between crop and any body of water when applying by air (See Section 4.)	100-150 mL/ha in 11 to 22 L of water per ha

May be used once per season on high organic (muck) soils.

See Section 7 for special instructions for use of decis 5 EC Insecticide on high organic (muck)

soils.

To minimize residues, apply before August 1.

DO NOT apply within 1 day of harvest.

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Rangeland Pastures Roadsides	Grasshoppers	<b>DIRECTIONS FOR USE</b> <b>GROUND</b> Apply when insects are young or signs of insect damage are evident. Apply when Grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. DO NOT apply to adjacent unregistered crops. The higher rate should be used when the proportion of mature and late nymphal stages in the population is inhibited by dense crop canopy. *Under severe insect pressure application should also be made along fence rows and roadsides as a 15 metre strip.	100 – 150 mL/ha in 100 – 200 L/ha of water
Rangeland Pastures *		<b>AERIAL:</b> Use as directed and follow special instructions for Aerial Application in Section 7 of the product label. Maintain a 100 meter setback from sensitive zones.	150 mL/ha in 11 – 22 L/ha of water

<p>DO NOT apply more than two times per year by air.  DO NOT use more than 3 applications per year; for example, 3 ground applications or 2 ground/1 air or 2 air/1 ground.</p>			

Shelterbelts	Forest Tent Caterpillar	GROUND Apply when larvae are actively feeding for best results. Thorough coverage is essential for good control.	45 mL per 100 L of water applied until runoff
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Strawberries	Tarnished Plant Bug	GROUND Apply when insects are present or when signs of insect feeding are visible. Repeat if necessary. decis 5 EC will NOT control Strawberry Weevil.	200 mL/ha (68 mL/1000 L of water)
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DO NOT apply more than 2 times per year.  
DO NOT apply within 14 days of harvest.

Sunflower	Sunflower Beetle	GROUND ADULTS Apply when the insect is present or signs of insect damage appear. Crops should be sprayed at the cotyledon to 2-leaf stage.	100 mL/ha in 100-200 L of water per ha
	Sunflower Beetle	AERIAL ADULTS AND LARVAE Apply once per season when the insect is present or signs of insect damage appear. Heads should be carefully examined for larvae. Application at dusk when insects are actively feeding is preferable. Read instructions for Aerial Application in Section 7. Observe 100-metre buffer zone between crop and any body of water when applying by air. (See Section 4.)	100 mL/ha in 11-22L of water

DO NOT apply more than once per year.  
DO NOT apply within 70 days of harvest.

Tobacco	Cutworm	GREENHOUSE Apply when damage first appears. Plants should be sprayed in the evening.  GROUND - RYE OR WHEAT COVER CROP	4 mL in 15 L of water per 100 m <sup>2</sup> of seedbed
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Apply when insects are present and feeding. This is usually in the evening. Apply at least 5 days prior to plowing.

100 mL/ha in 200-500 L of water per ha

**PRE-PLANT SOIL TREATMENT**

Apply at least 5 days prior to transplanting. Do not disturb the soil before transplanting. Use the higher rate when soil conditions are dry.

200-400 mL/ha in 200-500 L of water per ha

**POST-PLANTING TREATMENT**

Apply when insects are present or there are signs of insect damage.

200 mL/ha in 200-500 L of water as a broadcast application

Under severe insect pressure, application should also be made to fence-rows and a 15 metre strip into nearby cover crops.

DO NOT apply within 45 days of harvest.

**GROUND**

Tomato	Colorado Potato Beetle	Apply when insects are present or signs of insect feeding are evident. Repeat as necessary to a maximum of 3 applications per year. Use the higher rate under severe infestation.	100-150 mL/ha in 200-500 L of water per ha
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May be used once per season on high organic (muck) soils.

See Section 7 for special instructions for use of decis 5 EC Insecticide on high organic (muck) soils.

To minimize residues, apply before August 1.

DO NOT apply within 3 days of harvest.

**GROUND**

Wheat, Barley, Oats, Flax	Cutworm	Apply once per season when larvae are present and feeding. For best results apply in the evening. Do not disturb the soil after application. Under severe insect pressure, application should be made to a 15-metre strip along fence rows around the field.	200 mL/ha in 100 L of water per ha
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Observe 15-metre buffer between crop and adjacent body of water when applying by ground.

**AERIAL**

Read instructions for Aerial Application in Section 7.

200 mL/ha in 11-22 L of water per ha

Observe 100-metre buffer between crop and any body of water when applying by air (See Section 4.)



		<b>GROUND</b>	
Grasshopper		Apply when young insects are present or signs of damage are evident. Apply when grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. Under severe insect pressure, application should also be made to a 15-metre strip along fence rows around the field. The higher rate should be used when the proportion of late nymphal stages in the population is high and the canopy is dense, inhibiting penetration.	100-150 mL/ha in 100-200 L of water per ha
		<b>AERIAL</b>	
		Read instructions for Aerial Application in Section 7. Observe 100-metre buffer between crop and any body of water when applying by air (See Section 4.)	150 mL/ha in 11-22 L of water per ha

DO NOT apply to adjacent unregistered crops.  
DO NOT use more than 3 applications per year  
Use a maximum of 2 aerial applications per year.  
DO NOT apply to Oats within 31 days of harvest.  
DO NOT apply to Wheat, Barley and Flax within 40 days of harvest.

Commercial Greenhouse Floriculture Crops (Chrysanthemum, Cineraria, Easter Lilies, Geraniums)	Western Flower Thrip	Foliar Application: Apply as a high volume spray using a compressed air sprayer. Spray to run-off to ensure complete coverage. Three (3) applications at 5-7 day intervals may be necessary to achieve control. Consult local greenhouse advisors for timing, identification of thrip species and information on rotation of materials to reduce resistance possibilities. PRECAUTION: All species and varieties have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe prior to full-scale application.	35-50 mL per 100 L of water
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DO NOT apply decis 5 EC Insecticide with fogging machines.  
DO NOT apply within 7 days of harvest of flower crop.  
RE-ENTRY PERIOD: Allow 12 hours between application and re-entry into treated area. When working with treated foliage, workers should wear chemical resistant gloves.

#### RATE RANGE:

Where a rate range is given in the Directions For Use, the higher rate should be used when:

- crop canopy is dense and foliage is inhibiting spray penetration
- a range of insect growth stages are present (for example 1st through 5th nymphal stages of Grasshoppers OR larvae and adults of Colorado Potato Beetle)
- insect populations are very high

#### TIMING:

For maximum efficacy, it is necessary to:

- keep crop and pest under observation to be able to spray at the right moment
- ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense

Unless otherwise stated, apply decis 5 EC Insecticide when insects first appear and repeat as required to maintain control.

Follow provincial recommendations.

#### Section 9: Mixing Instructions

The volumes of water may vary greatly, depending on the equipment, the crop, and cultural conditions. The volumes of water to be used will vary between 11 and 1,000 litres per hectare. Ensure spray tank is thoroughly clean. Fill sprayer half-full with clean water. Add product while agitating. Add the remaining amount of water.

#### Section 10: Resistance Management Recommendations:

For resistance management, please note that decis 5 EC Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to decis 5 EC Insecticide and other Group 3 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 decis 5 EC Insecticide or other Group 3 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 integrated pest management (IPM) program that includes scouting, record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development;
- Contact the 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 Bayer CropScience at 1-888-283-6847.

#### Section 11: Livestock Feeding and Pre-Harvest Intervals

Crop	Pre-Harvest Interval (Days)	Crop	Pre-Harvest Interval (Days)
Alfalfa - Forage	90	Kale	1
Alfalfa - Seed	20	Mustard	14
Apples	1	Oats	31
Barley	40	Onions	5
Blueberries	14	Peaches	1
Broccoli	3	Pears	7
Brussels Sprouts	1	Peppers	3
Cabbage	3	Potatoes	1
Canola (Rapeseed)	14	Strawberries	14
Cauliflower	3	Sunflowers	70
Corn (field and seed)	1	Tobacco	45
Corn (sweet)	5	Tomatoes	3
Flax	40	Wheat	40
Floriculture	7		

#### Section 12: Notices

**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.

FOR MORE INFORMATION CONTACT:

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