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GROUP 3 INSECTICIDE

decis® 5 EC INSECTICIDE (Eastern Canada & British Columbia)

EMULSIFIABLE CONCENTRATE

FOR SALE FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA

COMMERCIAL

REGISTRATION NO. 22478 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: deltamethrin 50 g/L



TRIPLE RINSE

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.

GENERAL INFORMATION

For use in Eastern Canada and British Columbia.

decis 5 EC Insecticide (Eastern Canada & British Columbia) is not a systemic product.

decis 5 EC Insecticide (Eastern Canada & British Columbia) controls insects through contact and/or ingestion

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

SAFETY AND HANDLING

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 a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or faceshield) during mixing, loading and application. Gloves and protective eyewear are not required during application within a closed-cab or cockpit.
- 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.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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:

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 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.

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.

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. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

TOXIC TO aquatic organisms. This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

TOXIC to small wild mammals.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

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. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

May harm bees and other beneficial insects used in greenhouse production. Avoid application when bees or other beneficial insects are actively foraging in the treatment area.

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

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 of this product 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

Store this product away from food or feed.

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.

Do not use or store in or around the home.

Keep in original container during storage.

Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

DISPOSAL

FOR 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 mixture in the tank.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

FOR 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 REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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 cleanup of spills.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Booklet



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For More Information, Contact:

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GENERAL INFORMATION

Section 1: The Product

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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 a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or faceshield) during mixing, loading and application. Gloves and protective eyewear are not required during application within a closed-cab or cockpit.
- 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.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

Section 3: First Aid and Toxicological Information

FIRST AID:

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.

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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.

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Section 4: ENVIRONMENTAL PRECAUTIONS

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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 of this product 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.

Section 5: STORAGE

Store this product away from food or feed.

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.

Do not use or store in or around the home.

Keep in original container during storage.

Section 6: DISPOSAL

FOR 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:

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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 cleanup 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 (Eastern Canada & British Columbia) 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.

Not for use by homeowners or other uncertified users.

Not permitted for application using handheld mistblower and/or fogger machine (handheld and automated) in greenhouses.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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.

AERIAL APPLICATION:

decis 5 EC Insecticide (Eastern Canada & British Columbia) may be applied by aircraft to Wheat, Barley, Oats, Crop Subgroup 6C, Crop Subgroup 20A, Potatoes, Sunflowers and Sweet Corn.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Air-induction nozzles must be used for the ground application of this product. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods are dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward 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.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium-coarse classification. **DO NOT** apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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.

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 *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. 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.

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!

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.

APPLICATION PRECAUTIONS:

See Section 4 for environmental precautions.

USE ONLY FOR RECOMMENDED PURPOSES AT RECOMMENDED RATES.

Buffer zones:

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

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), 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:				Terrestrial habitat
			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	Shelterbelts		4	2	120	120	1
	Tobacco (pre-plant)		1	1	55	25	1
	Tobacco (post plant), onion		1	1	30	15	0
	Tobacco (cover crop), sunflower		1	1	15	10	0
	Pepper, field corn, seed corn, sweet corn		1	1	45	20	1
	Alfalfa (seed production only), potato		1	1	35	15	1
	Broccoli, Brussel sprout, cabbage, cauliflower, kale		2	1	30	15	1
	Asparagus, strawberry, Crop Subgroup 6C, Crop Subgroup 20A, wheat, barley, oats		1	1	30	15	1
Tomato, rangeland, pasture, lowbush blueberry		1	1	25	10	0	
Airblast	Shelterbelts	Early growth stage	55	45	105	95	10
		Late growth stage	45	35	95	85	5
	Apple	Early growth stage	45	35	80	75	2
		Late growth stage	35	25	70	65	2
	Pear	Early growth stage	45	35	85	75	3
		Late growth stage	35	25	75	65	2
	Highbush blueberry	Early growth stage	40	30	80	70	2
		Late growth stage	30	20	70	60	1
Peach	Early growth stage	30	20	80	70	0	
	Late growth stage	20	10	70	60	0	
Aerial	Sweet corn	Fixed wing	45	15	800	800	1
		Rotary wing	30	10	800	800	10
	Potato, pasture, rangeland	Fixed wing	40	10	800	800	1
		Rotary wing	25	10	800	750	5
	Sunflower	Fixed wing	10	5	800	800	0
		Rotary wing	10	5	800	575	0
	Crop Subgroup 6C	Fixed wing	90	25	800	800	10
		Rotary wing	55	20	800	800	10
	Wheat, barley, oats	Fixed wing	55	15	800	800	1
		Rotary wing	35	10	800	800	1
Crop Subgroup 20A	Fixed wing	70	20	800	800	10	
	Rotary wing	45	15	800	800	10	

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 CANNOT be modified using the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

Section 8: Crops, Insects, Rates, and Timing

ALFALFA FOR SEED PRODUCTION ONLY

INSECTS	RATE (mL/ha)	RECOMMENDATIONS
Alfalfa Weevil Lygus Bugs	200-250	Apply when insects are present and spraying is recommended. Use the higher rate when the Alfalfa Weevil is present.
Grasshoppers	100-150	Apply when signs of insect damage are evident and grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. The higher rate should be used when the proportion of mature and late nymphal stages in the grasshopper population is high and/or spray penetration is inhibited by dense crop canopy. Under severe insect pressure, application should also be made to a 15-metre strip along fence rows around the field.
Application method: Ground application in 100 – 300 L of water per ha.		
Restrictions: DO NOT APPLY MORE THAN ONCE PER YEAR. DO NOT apply within 20 days of harvest.		

APPLES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Apple Aphid	200 mL/ha (68 mL /1000 L of water)	GROUND Apply according to provincial recommendations, usually 17-21 days after petal fall (calyx).
Apple Brown Bug, Mullein Plant Bug	200 mL/ha (68 mL /1000 L of water)	Apply when bugs are present. Follow provincial recommendations
Apple Leaf Curling Midge	200-250 mL/ha (68-85 mL/1000 L of water)	Apply when first signs of damage are visible.

Codling Moth	200-250 mL/ha (68-85 mL/1000L of water)	Apply 7 to 10 days after petal fall (calyx). Repeat sprays at 10 day intervals to a maximum of 3 applications.
Tentiform Leaf Miner (adults only)	250 mL/ha (85 mL /1000 L of water)	Apply when adults are first visible. Thorough coverage on trunk and scaffold limbs is recommended. decis 5 EC Insecticide (Eastern Canada & British Columbia) is not effective in controlling eggs of mining larvae and should be used to prevent re-infestation of adult generations.
Winter Moth	150 mL/ha (50 mL /1000 L of water)	Apply when first signs of feeding are visible.
Fruit Tree Leafroller, Oblique Banded Leafroller, Pale Apple Leafroller, Eye Spotted Budmoth	200 mL/ha (68 mL /1000 L of water)	Apply when first signs of feeding are visible.
White Apple Leafhopper	200 mL/ha (68 mL/1000 L of water)	Spray when large numbers of adults are present.
Oriental Fruit Moth*	200-250 mL/ha in 3000 L of water	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 is less synchronized than the 1st or 2nd 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.

ASPARAGUS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Asparagus Beetle	200 mL/ha in 200-500 L/ha of water	GROUND First application should be in spring prior to egg laying. Application must take place after the spears have been cut.
<p>DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Minimum interval between applications: 7 days. DO NOT apply to asparagus prior to the cutting of spears.</p>		

BLUEBERRIES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Leaf Tier	150 mL/ha	GROUND Apply in the bud cluster stage (just prior to leaf bud opening).
Bruce Spanworm	125 mL/ha	Apply when insects or damage first appears. Avoid spraying during flowering.
<p>DO NOT APPLY MORE THAN 3 TIMES PER YEAR. 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. Minimum interval between applications: 5 days.</p>		

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Imported Cabbageworm, Cabbage Looper, Diamondback Moth	150-200 mL/ha in 350-550 L/ha of water	GROUND Apply when insects are present or signs of insect feeding are visible
Flea Beetle (Cabbage Only)	150-200 mL/ha in 350-550 L/ha of water	Apply when insects are present, and actively feeding. Under severe pressure, application should also be made to a 15-metre strip along fence rows around the field.
<p>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. Minimum interval between applications: 10 days; DO NOT APPLY MORE THAN 8 TIMES PER YEAR</p>		

CROP SUBGROUP 6C DRIED SHELLED PEA AND BEAN (EXCEPT SOYBEAN):

Bean (includes grain lupin, sweet lupin, white lupin and white sweet lupin), bean (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean and wax bean), bean (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, yardlong bean), broad bean (fava bean), chickpea (garbanzo bean), guar, lablab bean (hyacinth bean), lentil, pea (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), pigeon pea.

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Grasshopper	100-150 mL/ha	Apply when insects are present as young hoppers or signs of insect damage are evident. Apply when the Grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development.
Suppression of Pea Leaf Weevil	150 mL/ha	Make the first application after emergence but prior to the 5 to 6 node stage. Apply while the adults are still present on the plants, before egg laying begins.
Cutworms	200 mL/ha	Apply when larvae are present and feeding. Do not disturb the soil after application.
Lygus Bug	200 mL/ha	Apply when the insects are present at economic thresholds.
<p>Pre-Harvest Interval (PHI): 7 days. DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Method of application: Ground or Aerial For ground application: 100 to 200 L/ha. For aerial application: apply in minimum spray volume of 22 L/ha. Follow special instructions for aerial application at front of this brochure. Minimum interval between applications: 5-7 days.</p>		

CROP SUBGROUP 20A RAPESEEDS:

Borage, Canola, Crambe, Cuphea, Echium, Flax seed, Gold of Pleasure, Hare's ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed, Sesame, Sweet rocket, Cultivars, varieties, and/or hybrids of these commodities

INSECTS	RATE (mL/ha)	RECOMMENDATIONS
Cabbage Seedpod Weevil	200	For control of adult weevil only. Apply when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.
Cutworms	200	Apply when larvae are present and feeding. Do not disturb the soil after application. Under severe insect pressure, application should also be made to a 15-metre strip along fence- rows around the field. Apply in sufficient water to ensure thorough coverage.
Diamondback Moth	100-150	Apply by air only when insects are actively feeding or when Provincial Letters recommend spraying.
Flea Beetles	100-150	Apply when insects are present. decis 5 EC Insecticide (Eastern Canada & British Columbia) controls only those insects present. Application should be made when the beetles are actively feeding. Under severe pressure, application should also be made to a 15-metre strip along fence rows around the field.
Swede Midge	150-200	Begin applications when a significant population of adult midge are observed as determined by local monitoring. Under heavy pressure, use the higher rate. Thorough coverage is important to obtain optimum efficacy.
Lygus Bugs (including Tarnished Plant Bugs)	150	Apply when bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.
<p>Application method: Ground or aerial. Ground application in 100 L of water per hectare. Aerial application in 20-45 L of water per hectare. Read special instructions for aerial application at the front of this brochure. Minimum interval between applications: 5-7 days.</p>		
<p>Restrictions: Pre-Harvest Interval (PHI): 7 days DO NOT apply more than 500 mL/ha per year. DO NOT APPLY MORE THAN 3 TIMES PER YEAR. If 3 applications are used, only the first or second application can be at 200 mL/ha. Minimum interval between applications: 5-7 days by ground application.</p>		

CORN (FIELD AND SEED)

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
European Corn Borer	250-300 mL/ha in at least 240 L of water per ha	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray 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.		
NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:		
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INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Bean Cutworm	250-300 mL/ha in at least 240 L of water per ha	GROUND 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
DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Do not apply within 1 day of harvest.		

CORN (SWEET)

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Bean Cutworm	250-300 mL/ha in at least 240 L of water per ha	GROUND 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 11-22 L/ha of water	AERIAL Read instructions for Aerial Application in Section 7.
DO NOT APPLY MORE THAN 2 TIMES PER YEAR, only one of which may be by air. Minimum interval between applications: 5-8 days DO NOT apply within 5 days of harvest.		

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
European Corn Borer Corn Earworm	250-300 mL/ha in at least 240 L of water per ha	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray 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 (Eastern Canada & British Columbia) be alternated with other insecticides. Apply when insects are present in the silks. Follow provincial spray calendar recommendations.
European Corn Borer, Corn Earworm	250-300 mL/ha in 11-22 L/ha of water.	AERIAL Read instructions for Aerial Application in Section 7.
DO NOT APPLY MORE THAN 2 TIMES PER YEAR, only one of which may be by air. Minimum interval between applications: 5-8 days DO NOT apply within 5 days of harvest.		

KALE

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cabbage Looper, Diamondback Moth, Imported Cabbageworm, Purplebacked Cabbageworm	200 mL/ha in 300-400 L of water per ha	GROUND Apply when insects are present or signs of insect feeding are visible. Minimum interval between applications: 10 days. DO NOT APPLY MORE THAN 8 TIMES PER YEAR.

ONIONS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Onion Thrip	200 mL/ha in 200 - 500 L/ha of water	GROUND Apply as foliar spray mid-season at proper thrip threshold.
DO NOT APPLY MORE THAN ONCE PER YEAR. DO NOT apply within 5 days of harvest.		

PEACHES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Peach Twig Borer, Oriental Fruit Moth	200 mL/ha (68 mL/1000 L of water)	GROUND Application must occur when insect is visibly present.

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.

PEARS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Pear Psylla (nymphs & adults)	350 mL/ha (118mL/ 1000 L of water)	GROUND 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.
Pear Psylla over wintering adults - B.C. only	200 mL/ha (68 mL/ 1000 L of water)	Apply when the insect first appears in the spring.
Oriental Fruit Moth	200-250 mL/ha in 3000 L of water	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 is less synchronized than the 1st or 2nd generations. Alternate with other insecticides for different generations of OFM to delay the insecticide resistance development in the pest populations.

DO NOT APPLY MORE THAN 3 TIMES PER YEAR.
 decis 5 EC (Eastern Canada & British Columbia) 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.

PEPPERS

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

DO NOT APPLY MORE THAN 3 TIMES PER YEAR.
 DO NOT apply within 3 days of harvest.

POTATOES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper	100-150 mL/ha in 200-500 L/ha of water	GROUND Apply when insects are present or signs of insect feeding are evident. Repeat to a maximum of 3 applications per year. Use the higher rate under severe infestations.
Potato Flea Beetle	100-150 mL/ha in 200-500 L/ha of water	Apply when first signs of insects appear and damage is visible. decis 5 EC Insecticide (Eastern Canada & British Columbia) 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.
Potato Aphid, Buckthorn Aphid	250 mL/ha in 300-400 L/ha of water	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 (Eastern Canada & British Columbia) will NOT control Green Peach Aphid.
Tuber Flea Beetle	150-200 mL/ha in 600 L of water per ha	Apply to control first generation of adult flea beetle. Repeat if necessary
European Corn Borer	150-250 mL/ha in 300-500 L/ha of water	Scout for European corn borer egg masses to determine when egg laying and egg hatch is occurring. Apply decis 5 EC Insecticide (Eastern Canada & British Columbia) 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.
DO NOT apply to adjacent unregistered crops.		
Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper, Potato Flea Beetle	100-150 mL/ha in 20 to 22 L of water per ha	AERIAL Apply up to 2 times per year if required. Read instructions for Aerial Application in Section 7.
DO NOT apply within 1 day of harvest. DO NOT APPLY MORE THAN 500 mL product/ha/year by ground, or 300 mL product/ha/year by air. Minimum interval between applications: 5-7 days.		

RESISTANCE: Colorado Potato Beetle is known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. The use of decis 5 EC Insecticide (Eastern Canada & British Columbia) must be alternated with insecticides with a different mode of action. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

RANGELAND, PASTURES*

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INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Grasshoppers	<p>100 – 150 mL/ha in 100 – 200 L/ha of water</p> <p>150 mL/ha in 11 – 22 L/ha of water</p>	<p>GROUND 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.</p> <p>AERIAL Use as directed and follow special instructions for Aerial Application in Section 7.</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.
 Minimum interval between applications: 5-7 days.

SHELTERBELTS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Forest Tent Caterpillar	45 mL per 100 L of water applied until runoff	GROUND Apply when larvae are actively feeding for best results. Thorough coverage is essential for good control. Maximum one application per year.

STRAWBERRIES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Tarnished Plant Bug	200 mL/ha (68 mL/1000 L of water)	GROUND Apply when insects are present or when signs of insect feeding are visible. Repeat if necessary. decis 5 EC (Eastern Canada & British Columbia) will NOT control Strawberry Weevil.
<p>DO NOT APPLY MORE THAN 2 TIMES PER YEAR. DO NOT apply within 14 days of harvest. Minimum interval between applications: 5 days.</p>		

SUNFLOWER

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Sunflower Beetle	100 mL/ha in 100-200 L of water per ha	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 11-22L of water	AERIAL ADULTS AND LARVAE Apply once per year 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.
<p>Pre-Harvest Interval (PHI): 70 days DO NOT APPLY MORE THAN ONCE PER YEAR IN FIELD.</p>		

TOBACCO

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cutworm	4 mL in 15 L of water per 100 m ² of seedbed	GREENHOUSE Apply when damage first appears. Plants should be sprayed in the evening. DO NOT APPLY MORE THAN 3 TIMES PER YEAR IN GREENHOUSE
	100 mL/ha in 200-500 L of water per ha	GROUND - RYE OR WHEAT COVER CROP Apply when insects are present and feeding. This is usually in the evening. Apply at least 5 days prior to plowing.
	200-400 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 mL/ha in 200-500 L of water as a broadcast application	POST-PLANTING TREATMENT Apply when insects are present or there are signs of insect damage.
<p>Under severe insect pressure, application should also be made to fence-rows and a 15 metre strip into nearby cover crops. Pre-Harvest Interval (PHI): 45 days DO NOT APPLY MORE THAN ONCE PER YEAR IN FIELD.</p>		

TOMATO

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Colorado Potato Beetle	100-150 mL/ha in 200-500 L of water per ha	GROUND Apply when insects are present or signs of insect feeding are evident. Use the higher rate under severe infestation.
<p>DO NOT apply within 3 days of harvest. Minimum interval between applications: 5 days. DO NOT APPLY MORE THAN 3 TIMES PER YEAR. RESISTANCE: Colorado Potato Beetle is known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. The use of decis 5 EC Insecticide (Eastern Canada & British Columbia) must be alternated with insecticides with a different mode of action. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.</p>		

WHEAT, BARLEY, OATS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cutworm	200 mL/ha in 100 L of water per ha	<p>GROUND</p> <p>Apply 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.</p>
	200 mL/ha in 11-22 L of water per ha	<p>AERIAL</p> <p>Read instructions for Aerial Application in Section 7.</p>
Grasshopper	100-150 mL/ha in 100-200 L of water per ha	<p>GROUND</p> <p>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.</p>
	150 mL/ha in 11-22 L of water per ha	<p>AERIAL</p> <p>Read instructions for Aerial Application in Section 7.</p>
<p>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 and Barley within 40 days of harvest. Minimum interval between applications: 5-7 days.</p>		

COMMERCIAL GREENHOUSE FLORICULTURE CROPS
(Chrysanthemum, Cineraria, Easter Lilies, Geraniums)

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Flower Thrip	35-50 mL per 100 L of water	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: Not all species and varieties have been tested. When treating large numbers of plants of a single variety, treat a few plants and observe prior to full-scale application.
<p>DO NOT apply decis 5 EC Insecticide (Eastern Canada & British Columbia) with fogging machines.</p> <p>DO NOT apply within 7 days of harvest of flower crop.</p> <p>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.</p>		

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 (Eastern Canada & British Columbia) 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 (Eastern Canada & British Columbia) contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to decis 5 EC Insecticide (Eastern Canada & British Columbia) 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 (Eastern Canada & British Columbia) 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 that is effective on the target pest 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	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
Crop Group 20A	7	Strawberries	14
Crop Group 6C	7	Sunflowers	70
Cauliflower	3	Tobacco	45
Corn (field and seed)	1	Tomatoes	3
Corn (sweet)	5	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.

FOR MORE INFORMATION CONTACT:

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DISCLAIMER: The user assumes the risk to persons or property that arises from any use of this product in a way that is inconsistent with the directions on the label.

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