



GROUP	3	INSECTICIDE
-------	---	-------------

decis® FLOWABLE INSECTICIDE

FOR SALE FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA

COMMERCIAL

REGISTRATION NUMBER 25573 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: deltamethrin 50 g/L

Contains propyl paraben at 0.08% or 2-methyl-4-isothiazolin-3-one at 0.0003% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% as preservatives.

DANGER POISON

TRIPLE RINSE

SEVERE EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND BOOKLET FOR USE BEFORE USING

NET CONTENTS: 1, 2, 10, 200 LITRES and bulk

Product Information: 1 888 283 6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3

decis® is a registered trademark of Bayer CropScience.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. decis Flowable Insecticide is a skin sensitizer. Avoid contact. Do not breathe vapour or spray mist. 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 cleanup. Workers must wear a respirator with either a NIOSH approved organic vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides when mixing, loading and applying deltamethrin using mechanically pressurized handgun equipment. Change contaminated 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.

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

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

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF 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 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 treatment advice.

TOXICOLOGICAL INFORMATION: Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically. Medical personnel should contact Bayer CropScience medical information services toll-free 1-800-334-7577. This product contains antifreeze. The treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration.

ENVIRONMENTAL PRECAUTIONS:

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 applications 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.

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.

Toxic to bees and other beneficial insects. 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 waste.

STORAGE: Store this product away from food or feed. Keep away from fire, flame or other sources of heat. This product **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.

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 spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

FOR 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 reuse this container for any other purpose.

For information on disposal of unused or unwanted product, contact Bayer CropScience or the provincial regulatory agency. Contact Bayer CropScience and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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

2020-0037
2020-04-01



GROUP	3	INSECTICIDE
-------	----------	-------------

decis® FLOWABLE INSECTICIDE

FOR SALE FOR USE IN EASTERN CANADA AND BRITISH COLUMBIA

COMMERCIAL

REGISTRATION NUMBER 25573 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: deltamethrin 50 g/L

Contains propyl paraben at 0.08% or 2-methyl-4-isothiazolin-3-one at 0.0003% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% as preservatives.

DANGER POISON

TRIPLE Rinse

SEVERE EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

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

Product Information: 1 888 283 6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd S.E.
Calgary, Alberta T2C 3G3

decis® is a registered trademark of Bayer CropScience.

decis Flowable Insecticide

Table of Contents:

Section Number:

GENERAL INFORMATION

The Product 1

SAFETY AND HANDLING

Precautions, Protective Clothing and Equipment 2

First Aid and Toxicological Information 3

Environmental Precautions and Information 4

Storage 5

Disposal 6

DIRECTIONS FOR USE

Application Instructions and Cautions 7

Crops, Insects, Rates and Timing 8

Mixing Instructions 9

Resistance Management Recommendation 10

Livestock Feeding and Pre-Harvest Intervals 8 and 11

Notices 12

For More Information, Contact:

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd S.E.
Calgary, Alberta T2C 3G3

GENERAL INFORMATION

Section 1: The Product

For sale for use in Eastern Canada and British Columbia.

decis Flowable Insecticide is not a systemic product.

decis Flowable Insecticide controls insects through contact and/or ingestion.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. decis Flowable Insecticide is a skin sensitizer. Avoid contact. Do not breathe vapour or spray mist.

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 cleanup.
- Change contaminated 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.
- Workers must wear a respirator with either a NIOSH approved organic vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides when mixing, loading and applying deltamethrin using mechanically pressurized handgun equipment.
- 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.

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

Section 3: First Aid and Toxicological Information

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

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF 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.

TOXICOLOGICAL INFORMATION:

Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

Medical personnel should contact Bayer CropScience medical information services toll-free 1-800-334-7577.

This product contains antifreeze.

The treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration.

Section 4: Environmental Precautions and Information

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 applications 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.

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.

Toxic to bees and other beneficial insects. 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 waste.

Section 5: Storage

Store this product away from food or feed.

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

This product 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:

1. Triple- or pressure- rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

FOR 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 reuse this container for any other purpose.

For information on disposal of unused or unwanted product, contact Bayer CropScience or the provincial regulatory agency. Contact Bayer CropScience 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.

decis Flowable Insecticide may be applied by air only on crops where aerial application is specified.

DO NOT apply using handheld or automated fogging, or mist blower.

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.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

SPECIAL INSTRUCTIONS FOR USE OF decis Flowable Insecticide ON HIGH ORGANIC (MUCK) SOILS:

In soils with high organic content (muck soils), special care in the application of decis Flowable Insecticide is necessary. Apply no more than 200 mL of product per hectare.

decis Flowable Insecticide should be applied only ONCE during each crop year on muck soil, prior to August 1st.

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 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.

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.

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 *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. 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.

decis Flowable Insecticide may be applied by aircraft to Wheat, Barley, Oats, Flax, Canola (Rapeseed), Mustard, Potatoes, Sunflowers and Sweet Corn. Follow directions in Section 8 for rates, timing of application and harvest restrictions.

AERIAL APPLICATION PRECAUTIONS:

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 Flowable Insecticide is applied during the cooler portions of the day (normally early morning or at dusk). USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

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:		Terrestrial Habitat
		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)	1	1	30	15	0
	Tobacco (cover crop)	1	1	15	10	0
	Pepper, field corn, seed corn, sweet corn	1	1	45	20	1
	Alfalfa (seed production only), potato (High organic muck soils), Potato (non-organic soil)	1	1	35	15	1
	Broccoli, Brussels sprout, cabbage, cauliflower, kale	2	1	30	15	1
	Asparagus, strawberry	1	1	30	15	1
	Canola, mustard, rapeseed, onion, high organic muck soils : broccoli, Brussels sprout, cabbage, cauliflower, sweet corn	1	1	30	15	0

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
	Canola (triazine tolerant), tomato, barley, flax, oat, wheat, rangeland, pasture, lowbush blueberry, high organic muck soils tomato.		1	1	25	10	0
	Sunflower		1	1	15	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
	CROP SUBGROUP 12-09B	Early growth stage	30	20	80	70	0
		Late growth stage	20	10	70	60	0
Aerial	Sweet corn (1 × 15 g a.i./ha)	Fixed wing	40	15	800	800	1
		Rotary wing	35	10	800	800	10
	Potato, wheat, barley, oat, flax, pasture, rangeland (2 × 7.5 g a.i./ha)	Fixed wing	40	15	800	800	1
		Rotary wing	30	10	800	775	10
	Barley, flax, oat, wheat, sweet corn (high organic muck soils) (1 × 10 g a.i./ha)	Fixed wing	25	20	800	800	1
		Rotary wing	20	10	800	800	1
	Canola	Fixed wing	15	10	800	800	1

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
	(rapeseed), mustard (1 × 7.5 g a.i./ha), potato (high organic muck soils) (1 × 7.5 g a.i./ha)	Rotary wing	15	5	800	775	1
		Fixed wing	10	5	800	800	0
	Sunflower (1 × 5 g a.i./ha)	Rotary wing	10	5	800	700	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 airblast application of this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone calculator on the PMRA website. Buffer zones for field sprayer or aerial application of this product CANNOT be modified using the Buffer Zone Calculator on the PMRA website.

Section 8: Crops, Insects, Rates, Timing

CROP	INSECTS	RECOMMENDATIONS	RATE
Alfalfa (seed production only)	Alfalfa Weevil, Lygus Bug	GROUND Apply when insects are present or according to provincial recommendations. Use the higher rate when the Alfalfa Weevil is present.	200-250 mL/ha in 200-300 L of water
DO NOT apply more than once per year. DO NOT apply within 20 days of harvest.			
Apples	Apple Aphid	GROUND 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	200 mL/ha

Mullein Plant Bug	provincial recommendations	(68 mL/1000 L of water)
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 Flowable Insecticide is not effective in controlling eggs of mining larvae and should be used to prevent reinfestation of adult generations.	250 mL/ha (85 mL/1000 L of water)
Winter Moth	Apply when first signs of feeding are visible.	150 mL/ha (50 mL/1000 L of water)
Fruit Tree Leafroller, Oblique Banded Leafroller, Pale Apple Leafroller, Eye Spotted Budmoth	Apply when first signs of feeding are visible.	200 mL/ha (68 mL/1000 L of water)
White Apple Leafhopper	Spray when large numbers of adults are present.	200 mL/ha (68 mL/1000 L of water)

DO NOT apply when apple trees are in bloom.
DO NOT apply more than 3 times per year. Unless otherwise indicated, minimum interval between applications is 7 days.
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.

Asparagus	Asparagus Beetle	GROUND First application should be in spring prior to egg laying. Application must take place after the spears have been cut. Minimum interval between applications: 7 days; DO NOT APPLY MORE THAN 3 TIMES PER YEAR	200 mL/ha in 200-500 L of water
-----------	------------------	---	---------------------------------

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

Blueberries	Leaf Tier	GROUND Apply in the bud cluster stage (just prior to leaf bud opening).	150 mL/ha
	Bruce Spanworm	Apply when insects or damage first appears. Avoid spraying during flowering.	125 mL/ha
<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	Imported Cabbageworm, Cabbage Looper, Diamondback Moth Flea Beetle (Cabbage only)	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	150-200 mL/ha in 350-550 L of water
		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 of water
<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. May be used once per season on high organic (muck) soils. To minimize residues, apply before August 1st. See Section 7 for special instructions for use of decis Flowable Insecticide on high organic (muck) soils.</p>			
Canola (Rapeseed), Mustard	Flea Beetle	GROUND Apply when insects are present. decis Flowable 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 of water
	Flea Beetle	AERIAL Apply once per season by air if required. Read instructions for Aerial Application in Section 7.	100-150 mL/ha in 11-22 L of water

<p>DO NOT apply to adjacent unregistered crops DO NOT apply within 14 days of harvest. DO NOT apply more than once per year</p>			
Corn (field and seed)	European Corn Borer	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.	250-300 mL/ha in at least 240 L of water
<p>DO NOT apply more than 3 times per year.</p>			
Corn (sweet)	European Corn Borer	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. In situations where pest monitoring indicates repeat applications are required, it is recommended that decis Flowable Insecticide be alternated with other insecticides.	250-300 mL/ha in at least 240 L of water
	Corn Earworm	Apply when insects are present in the silks. Follow provincial spray calendar recommendations.	250-300 mL/ha in at least 240 L of water
	European Corn Borer, Corn Earworm	AERIAL Read instructions for Aerial Application in Section 7.	250-300 mL/ha in 11-22 L of water
<p>DO NOT apply more than 2 times per year; only 1 of which may be by air. To minimize residues in high organic (muck) soils, apply before August 1st. See Section 7 for special instructions for use of decis Flowable Insecticide on high organic (muck) soils. DO NOT apply within 5 days of harvest.</p>			
Kale	Cabbage Looper, Diamondback Moth, Imported Cabbageworm, Purplebacked Cabbageworm	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.	200 mL/ha in 300-400 L of water per ha
Onions	Onion Thrip	GROUND Apply as foliar spray mid-season at proper thrip threshold.	200 mL/ha in 200-500 L of water
<p>DO NOT apply more than once per season. DO NOT apply within 5 days of harvest.</p>			

<p>CROP SUBGROUP 12-09B: Peaches, Nectarines, Cultivars, varieties and/or hybrids of these</p>	<p>Peach Twig Borer, Oriental Fruit Moth</p>	<p>GROUND Application must occur when insect is visibly present.</p>	<p>200 mL/ha (68 mL/1000 L of water)</p>
<p>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</p>			
<p>Pears</p>	<p>Pear Psylla (nymphs & adults)</p>	<p>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.</p>	<p>350 mL/ha (118 mL/1000 L of water)</p>
	<p>Pear Psylla over wintering adults - B.C. only</p>	<p>Apply when the insect first appears in the spring.</p>	<p>200 mL/ha (68 mL/1000 L of water)</p>
<p>DO NOT apply more than 3 times per year. decis Flowable Insecticide does not control the hard shell of Pear Psylla. DO NOT apply within 7 days of harvest. Minimum interval between applications: 12 days.</p>			
<p>Peppers</p>	<p>European Corn Borer</p>	<p>GROUND Apply when egg masses begin to hatch or when first signs of insect feeding are evident. Repeat at 5-7 day intervals.</p>	<p>250-300 mL/ha in 200-500 L of water</p>
<p>DO NOT apply more than 3 times per year. DO NOT apply within 3 days of harvest.</p>			
<p>Potatoes</p>	<p>Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper</p>	<p>GROUND 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.</p>	<p>100-150 mL/ha in 200- 500 L of water</p>
	<p>Potato Flea Beetle</p>	<p>Apply when first signs of insects appear and damage is visible. decis Flowable Insecticide controls only those insects</p>	<p>100-150 mL/ha in 200- 500 L of water</p>

	Potato Aphid, Buckthorn Aphid	present. Under severe flea beetle populations, application should also be made to a 15 metre strip along fence rows around the field. Apply when insects are present or signs of insect feeding are visible. Repeat if necessary to a maximum of 2 applications per year. decis Flowable Insecticide will NOT control Green Peach Aphid.	250 mL/ha in 300-400 L of water per ha
	Tuber Flea Beetle	Apply to control first generation of adult flea beetle. Repeat as necessary to a maximum of 2 applications per year.	150-200 mL/ha in 600 L of water
	Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper, Potato Flea Beetle	AERIAL Apply up to 2 times per season if required. Read instructions for Aerial Application in Section 7.	100-150 mL/ha in 11 to 22 L of water
<p>DO NOT apply to adjacent unregistered crops. May be used once per season on high organic (muck) soils. See Section 7 for special instructions for use of decis Flowable Insecticide on high organic (muck) soils. To minimize residues, apply before August 1st. DO NOT apply within 1 day of harvest. Minimum interval between applications: 3 days.</p>			
Rangeland Pastures ^{1,2}	Grasshoppers	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. The higher rate should be used when the proportion of mature and late nymphal stages in the population is high and/or the crop canopy is dense, inhibiting spray penetration.	100 – 150 mL/ha in 100 – 200 L/ha of water
Rangeland Pastures ²		AERIAL Use as directed and follow instructions for Aerial Application in Section 7 of the product label.	150 mL/ha in 11 – 22 L/ha of water.

<p>DO NOT apply to adjacent unregistered crops DO NOT apply more than two times per year by air. DO NOT use more than 3 applications of decis Flowable Insecticide per year; for example, 3 ground applications or 2 ground/1 air or 2 air/1 ground. Minimum interval between applications: 5 days. ¹ Under severe insect pressure, application should also be made along fence rows as a 15 metre strip. ² Notice To User: Read the Following Before Using this product for these uses: The DIRECTIONS FOR USE for the uses described above were developed by persons other than Bayer CropScience and accepted for registration by Health Canada under the User Requested Minor Use Registration program. Bayer CropScience itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used in accordance with this label. Accordingly, the user assumes risk of damage or loss resulting from such use and agrees to hold Bayer CropScience harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described on this label.</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
Maximum one application per year.			
Strawberries	Tarnished Plant Bug	GROUND Apply when insects are present or when signs of insect feeding are visible. Repeat if necessary. decis Flowable Insecticide will NOT control Strawberry Weevil.	200 mL/ha (68 mL/1000 L of water)
<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>			
Sunflowers	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. 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	100 mL/ha in 100-200 L of water 100 mL/ha in 11-22L of water

		in Section 7.	
<p>DO NOT apply more than once per year. DO NOT apply within 70 days of harvest.</p>			
Tobacco	Cutworm	<p>GREENHOUSE Apply when damage first appears. Plants should be sprayed in the evening. DO NOT APPLY MORE THAN 3 TIMES PER YEAR IN GREENHOUSE</p>	4 mL in 15 L of water per 100 m ² of seedbed
		<p>GROUND RYE OR WHEAT COVER CROP Apply when insects are present and feeding.</p>	100 mL/ha in 200-
		<p>This is usually in the evening. Apply at least 5 days prior to plowing. 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. POST-PLANTING TREATMENT Apply when insects are present or there are signs of insect damage.</p>	<p>500 L of water</p> <p>200-400 mL/ha in 200-500 L of water</p> <p>200 mL/ha in 200-500 L of water as a broadcast application</p>
<p>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. DO NOT APPLY MORE THAN ONCE PER YEAR IN FIELD</p>			
Tomatoes	Colorado Potato Beetle	<p>GROUND 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.</p>	100-150 mL/ha in 200-500 L of water
<p>May be used once per season on high organic (muck) soils. See Section 7 for special instructions for use of decis Flowable Insecticide on high organic (muck) soils. To minimize residues, apply before August 1st. DO NOT apply within 3 days of harvest. Minimum interval between applications: 5 days.</p>			

Wheat, Barley, Oats, Flax	Cutworm	GROUND Apply once per season when larvae are present and feeding. For best results apply in the evening. Do not disturb the soil after application.	200 mL/ha in 100 L of water
		Under severe insect pressure, application should be made to a 15 metre strip along fence rows around the field.	
		AERIAL Read instructions for Aerial Application in Section 7. Apply once per season.	200 mL/ha in 11-22 L of water
	Grasshopper	GROUND 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
		AERIAL Read instructions for Aerial Application in Section 7.	150 mL/ha in 11-22 L of water
<p>Minimum interval between applications: 5 days. DO NOT apply to adjacent unregistered crops. Grasshoppers: 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.</p>			

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

- the crop canopy is dense and foliage is inhibiting spray penetration;
- a number 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 Flowable 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 1,500 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

For resistance management, please note that decis Flowable Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to decis Flowable and other Group 3 insecticides. The resistant biotypes may dominate the insect population if this group of insecticides is 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 Flowable Insecticide 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 and 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 IPM recommendations for the specific site and pest problems in the 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

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:

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3
Telephone: 1 888 283 6847

decis® is a registered trademark of Bayer CropScience.