

2022-0191
2022-01-26

Advantage Deltamethrin 5 EC

GROUP	3	INSECTICIDE
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FOR SALE FOR USE IN PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA
(INCLUDING THE PEACE RIVER REGION) ONLY

INSECTICIDE

COMMERCIAL

EMULSIFIABLE CONCENTRATE

ACTIVE INGREDIENT: DELTAMETHRIN.....50 GRAMS PER LITRE

REGISTRATION NO.: 34043 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND PAMPHLET BEFORE USING



SEVERE EYE AND SKIN IRRITANT

NET CONTENTS: 1L to Bulk

Advantage Crop Protection Inc.
620 4th Ave E
Regina, Saskatchewan
S4N 4Z5 Canada
1-888-931-2530

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PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Severely irritating to the eyes and skin. Fatal if swallowed, if absorbed through the skin, or if inhaled. Avoid contact. Avoid breathing vapour or spray mist. Wash thoroughly after using and before eating, drinking or smoking. Wear protective clothing including long-sleeved shirt and long pants (or coveralls), chemical resistant gloves, goggles and respirator when handling or spraying. 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 handling, 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.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to small wild mammals.

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Do not apply where streams, lakes, ponds or water used by livestock or for domestic purposes may be contaminated. This product contains petroleum distillates which are 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 of equipment.

TOXIC to bees. DO NOT apply this product to flowering crops if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. 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 Canada.ca. Follow crop specific directions for application timing.

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.

UNTREATED BORDERS SHOULD ALWAYS BE LEFT AROUND

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ENVIRONMENTALLY SENSITIVE AREAS (e.g. wetlands, sloughs, houses, farm buildings). The depth of the border depends on the method of application. Read the portions of this label pertaining to the intended method of application carefully and completely BEFORE APPLYING Advantage Deltamethrin 5 EC. AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (for example, daytime temperatures greater than 25° C) as a reduction in control will result. Best control will be achieved when Advantage Deltamethrin 5 EC is applied during the cooler portions of the day (for example early morning or at dusk).

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.

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TOXICOLOGICAL INFORMATION:

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

Medical personnel should contact CANUTEC emergency medical information number 613-996-6666 or *666 on a cellular phone. The treatment of intoxication should be symptomatic and supportive. Where the product has been ingested, carry out gastric lavage with care to prevent aspiration. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. This product contains xylene.

STORAGE:

CANNOT BE STORED BELOW FREEZING. If stored for one year or longer, shake vigorously before using. To prevent contamination store this product away from food or feed. Keep in original container during storage. Keep away from fire, open flame, or other sources of heat.

DISPOSAL:

RECYCLABLE CONTAINER

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.

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.

DISPOSAL OF UNUSED SPRAY SOLUTION

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches and irrigation canals.

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.

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GENERAL INFORMATION:

Advantage Deltamethrin 5 EC is not a systemic product. It controls insects through contact and/or ingestion. 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.

The volumes of water may vary greatly, depending on the equipment, the crop, and cultural conditions. Actual volumes of water to be used will vary between 11 and 1000 litres per hectare. The distribution of the product over plant surfaces must be as uniform as possible where the insects are moving and/or feeding.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Severely irritating to the eyes and skin. Fatal if swallowed, if absorbed through the skin, or if inhaled. Avoid contact. Avoid breathing vapour or spray mist. Wash thoroughly after using and before eating, drinking or smoking. Wear protective clothing including long-sleeved shirt and long pants (or coveralls), chemical resistant gloves, goggles and respirator when handling or spraying. 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 handling, 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.

ENVIRONMENTAL PRECAUTIONS:

Toxic to small wild mammals. Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Do not apply where streams, lakes, ponds or water used by livestock or for domestic purposes may be contaminated. This product contains petroleum distillates which are 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 of equipment.”

TOXIC to bees. DO NOT apply this product to flowering crops if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. 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 Canada.ca. Follow crop specific directions for application timing.

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

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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.

UNTREATED BORDERS SHOULD ALWAYS BE LEFT AROUND ENVIRONMENTALLY SENSITIVE AREAS (e.g. wetlands, sloughs, houses, farm buildings). The depth of the border depends on the method of application.

Read the portions of this label pertaining to the intended method of application carefully and completely **BEFORE APPLYING Advantage Deltamethrin 5 EC**.

AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (for example, daytime temperatures greater than 25° C) as a reduction in control will result. Best control will be achieved when Advantage Deltamethrin 5 EC is applied during the cooler portions of the day (for example early morning or at dusk).

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Treat symptomatically.

Medical personnel should contact CANUTEC emergency medical information number 613-996-6666 or *666 on a cellular phone. The treatment of intoxication should be symptomatic and supportive. Where the product has been ingested, carry out gastric lavage with care to prevent aspiration. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.
THIS PRODUCT CONTAINS XYLENE.

STORAGE:

CANNOT BE STORED BELOW FREEZING. If stored for one year or longer, shake vigorously before using. To prevent contamination store this product away from food or feed. Keep in original container during storage. Keep away from fire, open flame, or other sources of heat.

DISPOSAL:

RECYCLABLE CONTAINER

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2. Make the empty, rinsed container unsuitable for further use.

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DISPOSAL OF UNUSED, UNWANTED PRODUCT

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DISPOSAL OF UNUSED SPRAY SOLUTION

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches and irrigation canals.

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.

DIRECTIONS FOR USE:

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

1. when the crop canopy is dense and foliage is inhibiting spray penetration.
2. when 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).
3. when insect populations are very high.

Unless otherwise stated, apply Advantage Deltamethrin 5 EC when insects first appear and repeat as required to maintain control. Use sufficient water to ensure thorough coverage. 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. It is suggested that provincial spray calendar recommendations be followed.

When using ground application equipment, ensure that a 15-metre border is left around environmentally sensitive areas (e.g. wetlands, sloughs, rivers, houses, farm buildings). Refer to AERIAL APPLICATION section of this label for appropriate cautions when using aerial application equipment.

Use the rates listed below for both ground and aerial application. Advantage Deltamethrin 5 EC may be applied by air only on crops specified for aerial use. See AERIAL APPLICATION section of this label for adjustment of water volumes.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours for all agricultural uses.

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

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.

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

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.

SPECIAL INSTRUCTIONS FOR USE OF Advantage Deltamethrin 5 EC ON HIGH ORGANIC (MUCK) SOILS:

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

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AERIAL APPLICATION:

Advantage Deltamethrin 5 EC may be applied by aircraft to Wheat, Barley, Oats, Flax, Rapeseed, Canola, Mustard, Sunflowers, Shelterbelts (Forest Tent Caterpillar only), Potatoes, Lentils, Range land, and Pastures.

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 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. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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.

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 has 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 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:

When applying Advantage Deltamethrin 5 EC by aircraft, uniform spray coverage is essential. To

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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 Advantage Deltamethrin 5 EC in 11 - 22 litres of water per hectare at a pressure of no less than 200 kPa. For best results, use sufficient water to ensure complete coverage. **DO NOT USE RAINDROP NOZZLES.** Follow directions elsewhere on label for correct rate, timing of application and harvest restrictions.

Note: Ensure that all circuits (pipes, booms, etc.) have the correct Advantage Deltamethrin 5 EC/water concentration before application is started.

DO NOT apply Advantage Deltamethrin 5 EC by aircraft when the wind speed exceeds 8 kph.

Leave a 100- metre buffer between the edge of the treated field and environmentally sensitive areas (for instance wetlands, sloughs, rivers, houses, farm buildings). If a 100-metre buffer zone cannot be maintained, then application by ground must be followed. In these cases, the 15-metre buffer zone must be observed. Advantage Deltamethrin 5 EC is very toxic to aquatic organisms and fish and overspray or drift into these areas must be avoided.

AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (for example daytime temperatures greater than 25°C) as a reduction in control will result. Best control will be achieved when Advantage Deltamethrin 5 EC is applied during the cooler portions of the day (for example early morning or at dusk).

TANK MIX COMBINATIONS

Advantage Deltamethrin 5 EC can be tank mixed with a number of herbicides for the control of insect pests (specified on this label) and annual grassy and broadleaf weeds (see list of susceptible weeds on the respective herbicide labels). Carefully read respective labels for proper use. The following herbicides are compatible:

	PARDNER®	BANVEL®	2,4-D
	BUCTRIL® M		MCPA
PUMA ADVANCE®	PUMA ADVANCE® with BUCTRIL® M		

Advantage Deltamethrin 5 EC can be tank mixed with Puma Advance for the control of grasshoppers and annual grassy weeds or with Puma Advance and Buctril M for the control of grasshoppers and annual grassy weeds and broadleaf weeds in **SPRING WHEAT AND DURUM WHEAT ONLY**. The durum wheat cultivar “Plenty” may sustain an elevated level of injury following application of Advantage Deltamethrin 5 EC with Puma Advance and Buctril M.

Spray mixture must be constantly agitated throughout application. Do not allow the spray mixture to stand in the spray tank for more than 4 hours after mixing.

When a tank mix is used, the labels of the tank-mix partners are to be consulted and the largest (most restrictive) buffer zone of the products involved in the tank-mix is to be observed.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, Advantage Deltamethrin 5 EC contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Advantage Deltamethrin 5 EC 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

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to site of action, but 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 Advantage Deltamethrin 5 EC 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 IPM program that includes scouting, record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Advantage Crop Protection Inc. at 1-888-931-2530.

CROPS	INSECTS	METHOD OF APPLICATION AND RECOMMENDATIONS	RATE
Alfalfa (seed production only)	Alfalfa Weevil, Lygus Bugs	GROUND Apply when insects are present or when Provincial Letters recommend spraying. Use the higher rate when the Alfalfa Weevil is present.	200-250 mL/ha in 100-300 L of water per ha.
DO NOT MAKE MORE THAN 1 APPLICATION PER YEAR. DO NOT APPLY WITHIN 20 DAYS OF HARVEST.			
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Cabbageworm, Cabbage Looper, Diamondback Moth	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 per ha.
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 instructions above.			
Field Corn	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	250-300 mL/ha in at least 240 L of water per ha.

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CROPS	INSECTS	METHOD OF APPLICATION AND RECOMMENDATIONS	RATE
		zone.	
<p>DO NOT APPLY MORE THAN 3 TIMES PER YEAR. See instructions above.</p>			
<p>The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Advantage Crop Protection Inc. under the User Requested Minor Use Label Expansion program. For these uses, Advantage Crop Protection Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.</p>			
Field Corn	Western Bean Cutworm	<p>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.</p>	<p>250-300 mL/ha in at least 240 L of water per ha.</p>
<p>DO NOT APPLY WITHIN 1 DAY OF HARVEST. DO NOT APPLY MORE THAN 3 TIMES PER YEAR.</p>			

<p>The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Advantage Crop Protection Inc. under the User Requested Minor Use Label Expansion program. For these uses, Advantage Crop Protection Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.</p>			
Oilseed Mustard	Beet Webworm	<p>GROUND Apply once per season when larvae are present and actively feeding. Use the higher rate when infestations are high or canopy is thick.</p>	100-150 mL/ha in 100 L of water per ha.
	Flea Beetle	<p>GROUND Apply once per season when insects are present. Advantage Deltamethrin 5 EC 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.</p>	100-150 mL/ha in 100 L of water per ha
	Flea Beetle	<p>AERIAL Apply once per season by air, if required. Read special instructions for aerial application at the front of this brochure. Observe 100 metre setback between crop and any body of water.</p>	100 - 150 mL/ha in 11 to 22 L of water per ha.
	Clover Cutworm, Bertha Armyworm, Diamondback Moth	<p>AERIAL Apply once per season when insects are present or when Provincial Letters recommend spraying. Application should be made when the insects are actively feeding. Under heavy infestations, use the higher rate of Advantage Deltamethrin 5 EC.</p>	100-150 mL/ha in 11 to 22 L of water per ha.

	<p>Cabbage Seedpod Weevil</p>	<p>GROUND For control of adult weevil only. Apply once per season when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.</p>	<p>200 mL/ha in 100 L of water per ha</p>
	<p>Lygus Bug</p>	<p>AERIAL For control of adult weevil only. Apply once per season when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.</p>	<p>200 mL/ha in 11-22 L of water per ha</p>
		<p>GROUND Apply once per season when lygus bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.</p>	<p>150 mL/ha in 100 L of water per ha</p>
		<p>AERIAL Apply once per season when lygus bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.</p>	<p>150 mL/ha in 11-22 L of water per Ha</p>
	<p>Grasshopper</p>	<p>GROUND Follow provincial forecast. Apply once per season 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. 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 mature and late nymphal stages in the</p>	<p>100-150 mL/ha in 100L of water per ha.</p>

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		<p>population are high and spray penetration is inhibited by dense crop canopy.</p> <p>AERIAL Use as directed and follow special instructions maintaining 100-metre setback from sensitive zones. Apply once per season.</p>	<p>150 mL/ha in 11 – 22 L of water per ha.</p>
<p>DO NOT APPLY WITHIN 7 DAYS OF HARVEST. DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS DURING THE RESTRICTED ENTRY INTERVAL (REI) OF 12 HOURS FOR OILSEED MUSTARD.</p>			

Potatoes	<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 per ha.</p>
	<p>Potato Flea Beetle</p>	<p>Apply when first signs of insects appear and damage is visible. Advantage Deltamethrin 5 EC 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.</p>	
	<p>Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper, Potato Flea Beetle</p>	<p>AERIAL Apply a maximum of 2 times per season by air if required. Read special instructions for aerial application at front of brochure. Observe 100 metre setback between crop and any body of water.</p>	<p>100–150 mL/ha in 11 to 22 L of water per ha.</p>
<p>DO NOT APPLY WITHIN 1 DAY OF HARVEST. MAY BE USED ONCE PER SEASON ON HIGH ORGANIC (MUCK) SOILS. TO MINIMIZE RESIDUES, APPLY BEFORE AUGUST 1. See instructions above.</p>			

Canola, Rapeseed, Mustard	Beet Webworm	GROUND Apply when larvae are present and actively feeding. Use the higher rate when infestations are high or canopy is thick.	100-150 mL/ha in 100 L of water per ha.
	Flea Beetle	GROUND Apply when insects are present. Advantage Deltamethrin 5 EC 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.	100-150 mL/ha in 100 L of water per ha
	Flea Beetle	AERIAL Apply once per season by air, if required. Read special instructions for aerial application at the front of this brochure. Observe 100 metre setback between crop and any body of water.	100 - 150 mL/ha in 11 to 22 L of water per ha.
	Clover Cutworm, Bertha Armyworm, Diamondback Moth	AERIAL Apply once per season when insects are present or when Provincial Letters recommend spraying. Application should be made when the insects are actively feeding. Under heavy infestations, use the higher rate of Advantage Deltamethrin 5 EC.	100-150 mL/ha in 11 to 22 L of water per ha.
	Cabbage Seedpod Weevil	GROUND For control of adult weevil only. Apply once per season when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.	200 mL/ha in 100 L of water per ha

Canola	Lygus Bug	<p>AERIAL For control of adult weevil only. Apply once per season when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.</p>	200 mL/ha in 11-22 L of water per ha
		<p>GROUND Apply once per season when lygus bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.</p>	150 mL/ha in 100 L of water per ha
	Grasshopper	<p>AERIAL Apply once per season when lygus bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.</p>	150 mL/ha in 11-22 L of water per ha
		<p>GROUND Follow provincial forecast. 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. 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 mature and late nymphal stages in the population are high and spray penetration is inhibited by dense crop canopy.</p>	100-150 mL/ha in 100L of water per ha.
		<p>AERIAL Use as directed and follow special instructions maintaining 100-metre setback from sensitive zones.</p>	150 mL/ha in 11 – 22 L of water per ha.

DO NOT APPLY WITHIN 7 DAYS OF HARVEST.

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Saskatoon Berry	Sawfly, Lygus Bug (Tarnished Plant Bug), Hawthorn Weevil, Apple Curculio, Leaf Miner, Saskatoon Bud Moth	GROUND Apply three times per season, once prior to flowering, once at early flowering, and once after petal drop, observing the pre-harvest interval of 21 days. The insect species controlled will appear at different times of the growing season: Saskatoon Bud Moth & Lygus Bug at inflorescence bud bread (green tip) to tight bud cluster; Sawfly at 25% bloom; Apple Curculio & Hawthorn Weevil at 5-10 days after petal fall. Growers are encouraged to apply Advantage Deltamethrin 5 EC when the insect pest of concern first appears in sufficient numbers to cause economic damage.	2 mL in 4.5 L water for 100 m ² of orchard face row. (Apply mixture to both sides of each row.)
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DO NOT APPLY WITHIN 21 DAYS OF HARVEST.

Shelterbelts	Caragana Aphid, Eastern Spruce Budworm, Spruce Coneworm, Spring Spruce Needle Moth, Spotted Poplar Aphid, Forest Tent Caterpillar, Prairie Tent Caterpillar	GROUND Apply when insects are actively feeding for best results. Thorough coverage is critical for control.	90 mL per 100 L of water applied until runoff.
	Forest Tent Caterpillar	AERIAL Apply when larvae are actively feeding. Use the higher rate when there are large numbers of larvae present and/or heavy foliage which may prevent penetration.	100 – 150 mL/ha in 11 – 22 L of water per ha.
	Blister Beetle, Grey Willow Leaf Beetle	GROUND Apply when insects are actively feeding for best results. Thorough coverage is critical for control.	30 mL per 100 L of water applied until runoff.
	Willow Sawfly	GROUND Apply when larvae are actively feeding for best results. Thorough coverage is critical for control.	18 mL per 100 L of water applied until runoff.
DO NOT MAKE MORE THAN 1 APPLICATION PER YEAR.			

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The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Advantage Crop Protection Inc. under the User Requested Minor Use Label Expansion program. For these uses, Advantage Crop Protection Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Established Red Clover (for seed production only)	Suppression of lesser clover leaf weevil	GROUND Apply when insects are present. Apply 2 times at a 14 day interval, at early vegetative stage and when clover is budding. Use sufficient water to ensure thorough coverage. 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	250 mL/ha in 100-300 L of water per ha.
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DO NOT MAKE MORE THAN 2 APPLICATIONS PER YEAR.
DO NOT USE TREATED CROP FOR FEED OR FORAGE.
DO NOT APPLY BY AIR.
DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS DURING RESTRICTED ENTRY INTERVAL (REI) OF 12 HOURS FOR ESTABLISHED RED CLOVER.

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<p>Rangeland, Pastures Roadsides*</p>	<p>Grasshopper</p>	<p>GROUND Apply when insects are young 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. 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 are high and/or spray penetration is inhibited by dense crop canopy. *Under severe insect pressure application should also be made to fence row and roadsides as a 15 metre strip.</p>	<p>100 – 150 mL/ha in 100-200 L of water per ha.</p>
<p>Rangeland, Pastures</p>		<p>AERIAL Use as directed and follow special instructions maintaining 100 metre setback from sensitive zones.</p>	<p>150 mL/ha in 11 – 22 L of water per ha.</p>
<p>DO NOT APPLY MORE THAN TWO TIMES PER YEAR BY AIR. DO NOT USE MORE THAN 3 APPLICATIONS OF ADVANTAGE DELTAMETHRIN 5 EC PER YEAR. FOR EXAMPLE, 3 GROUND APPLICATIONS OR 2 GROUND/1 AIR OR 2 AIR/1 GROUND.</p>			
<p>Chokecherry Shelterbelts</p>	<p>Prairie Tent Caterpillar Ugly Nest Caterpillar, Fruit tree Leafroller</p>	<p>Apply prior to flowering when tents are visible, generally mid to late May Apply after flowering when tents are visible, generally early to mid June Apply after flowering when damage is first noted, generally early to mid June</p>	<p>92 mL product /1000 L water</p>
<p>Apply as a foliar spray; ground application only – ONE application per year. Apply so leaves are wet but not dripping Wear protective clothing including long-sleeved shirt, long pants and chemical resistant gloves when handling or spraying the product.</p>			

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Sunflowers	Sunflower Beetle	<p>GROUND ADULTS: Apply when the insect is present or signs of insect damage appear. Crops should be sprayed when in the cotyledon to 2-leaf stage.</p> <p>AERIAL ADULTS & 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.</p>	<p>100 mL/ha in 100 -200 L of water per ha.</p> <p>100 mL/ha in 11 - 22 L of water per ha.</p>
DO NOT APPLY WITHIN 70 DAYS OF HARVEST.			
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>	<p>100 – 150 mL/ha in 200 - 500 L of water per ha.</p>
<p>DO NOT TREAT WITHIN 3 DAYS OF HARVEST. MAY BE USED ONCE PER SEASON ON HIGH ORGANIC (MUCK) SOILS. TO MINIMIZE RESIDUES, APPLY BEFORE AUGUST 1. (See instructions above) 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 Advantage Deltamethrin 5 EC 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>			

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Wheat, Barley, Oats, Flax, Lentils, Sugarbeets	Cutworm	<p>GROUND OR AERIAL Apply once per season 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. DO NOT APPLY TO ADJACENT CROPS. Follow special instructions for aerial application at front of this brochure, maintaining a 100-metre setback from sensitive zones for aerial use and 15 metres when applied by ground.</p>	200 mL/ha in 100 L of water per ha.
	Clover Cutworm (Flax only)	<p>GROUND OR AERIAL Apply once per season when insects are present by air if required. Read special instructions for aerial application at the front of this brochure. If applied by air, observe 100-metre setback between crop and any body of water.</p>	100 – 150 mL/ha in 100 L of water per ha.
	Beet Webworm (Flax only)	<p>GROUND Apply once per season when larvae are present and actively feeding. Use the higher rate when infestations are high or canopy is thick.</p>	100-150 mL/ha in 100 L of water per ha.
<p>DO NOT USE MORE THAN 3 APPLICATIONS OF ADVANTAGE DELTAMETHRIN 5 EC PER YEAR ADVANTAGE DELTAMETHRIN 5 EC MAY BE USED FOR A MAXIMUM OF 2 AERIAL APPLICATIONS PER YEAR. DO NOT APPLY TO WHEAT, FLAX, OR BARLEY WITHIN 40 DAYS OF HARVEST. DO NOT APPLY TO OATS WITHIN 31 DAYS OF HARVEST. DO NOT APPLY TO LENTILS WITHIN 30 DAYS OF HARVEST. DO NOT APPLY TO SUGARBEETS WITHIN 100 DAYS OF HARVEST.</p>			

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Wheat, Barley, Oats, Flax, Lentils	Grasshopper	<p>GROUND Follow provincial forecast. 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. Under severe insect pressure application should also be made to a 15-metre strip along fence rows around the field. DO NOT APPLY TO UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population are high and spray penetration is inhibited by dense crop canopy.</p> <p>AERIAL Use as directed and follow special instructions maintaining 100-metre setback from sensitive zones. Do not make aerial application of tank-mix of Advantage Deltamethrin 5 EC with Buctril M herbicide and Puma¹²⁰ Super herbicide.</p>	<p>100-150 mL/ha in 100-200 L of water per ha.</p> <p>150 mL/ha in 11 – 22 L of water per ha.</p>
<p>DO NOT USE MORE THAN 3 APPLICATIONS OF ADVANTAGE DELTAMETHRIN 5 EC PER YEAR. ADVANTAGE DELTAMETHRIN 5 EC MAY BE USED FOR A MAXIMUM OF 2 AERIAL APPLICATIONS PER YEAR.</p> <p>DO NOT APPLY TO WHEAT, FLAX, OR BARLEY WITHIN 40 DAYS OF HARVEST.</p> <p>DO NOT APPLY TO OATS WITHIN 31 DAYS OF HARVEST.</p> <p>DO NOT APPLY TO LENTILS WITHIN 30 DAYS OF HARVEST.</p>			

FOR MORE INFORMATION
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