2021-3558 2022-10-07

This label has been updated according to the re-evaluation decision of lambda-cyhalothrin RVD2021-04. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 29/04/2023 in accordance with the phase out period set out in RVD2021-04. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

SILENCER 120 EC Emulsifiable Concentrate Insecticide

AGRICULTURAL

For the Control or Suppression of Listed Insects on Oilseeds, Cereals, Tree Fruit, Strawberries, Tobacco, Potatoes, Tomatoes, Cole Crops, Chokecherry, Legume Vegetables (Crop Group 6), Corn, Ferns of Asparagus, Timothy (For Seed Production Only), Sweet Potato, Carrots and Outdoor Ornamentals

ACTIVE INGREDIENT:

READ THE LABEL AND ATTACHED PAMPHLET BEFORE USING

KEEP OUT OF THE REACH OF CHILDREN



EYE IRRITANT

POTENTIAL SKIN SENSITIZER

REGISTRATION NO. 29052 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 – 1000 L

Adama Agricultural Solutions Canada Ltd. 300 – 191 Lombard Avenue Winnipeg, MB R3B 0X1 1-855-264-6262 **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.

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

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. This product has potential for skin and eye irritation; treat symptomatically. In case of exposure to skin of face or other sensitive areas, some individuals may feel a tingling or numbness. This is a transitory effect and does not cause harm to skin.

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

PRECAUTIONS

- 1. KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food.
- 2. Fatal or poisonous if swallowed. Harmful if inhaled. Avoid inhaling/breathing vapour or spray. SILENCER 120 EC is severely irritating to the eyes and skin. Do not get in eyes or on skin. Potential skin sensitizer. If hands are contaminated, wash with soap and water before touching other areas of skin.
- 3. Wear long pants, a long-sleeved shirt, chemical-resistant gloves, socks and chemical resistant boots during mixing, loading application, clean-up and repair, unless otherwise specified below. Gloves are not required during application in a closed cab or cockpit. In addition, during mixing, loading, clean-up and repair activities, workers must also wear, safety goggles and a face shield. Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use.
- 4. For applications using an open-cab groundboom equipment, when handling more than 59.6 L per person per day, also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for

pesticides OR use a closed cab tractor that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Respirator and gloves are not required to be worn during application within a closed cab. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

- 5. For open cab airblast application also wear a respirator with a NIOSH approved organic vapour removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides.
- 6. When handling more than 0.92 L per person per day using mechanically-pressurized handheld equipment, also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides during mixing, loading and application.
- 7. For application using handheld airblast/mistblower equipment, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides. DO NOT handle more than 42.5Lper person per day. This restriction is required to minimize exposure to the worker. Applications may be required over multiple days or using multiple applicators.
- 8. For all applications using handheld equipment, wear eye, head and respiratory protection when applying above waist height, including overhead.
- 9. **DO NOT** enter or allow worker entry into treated areas during the intervals specified in the following table. Workers shall be given oral warning of the re-entry interval.

Crop(s)	Postapplication Activity	REI
Com (aveat)	Hand harvesting	3 days
Corn (sweet)	All other activities	12 hours
C (1)	Hand detasseling	3 days
Corn (seed)	All other activities	12 hours
All other crops	All activities	12 hours

- 10. Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
- 11. SILENCER 120 EC Emulsifiable Concentrate Insecticide may be applied by air only to those crops for which this use is specified on this label.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

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.healthcanada.gc.ca/pollinators).

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

To reduce risk to aquatic organisms from runoff, a vegetative filter strip of at least 10 metres wide between the field edge and adjacent, downhill aquatic habitats must be observed, as specified under DIRECTIONS FOR USE

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

Greenhouse use: Toxic to beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm beneficial arthropods, including those used in greenhouse production. Avoid application when beneficial arthropods are in the treatment area.

STORAGE

Store this product away from food or feed.

Store in a cool, well ventilated area away from foodstuffs and out of the reach of children and animals. Store above 0°C. Storage below 0°C will not impair the effectiveness of SILENCER 120 EC Emulsifiable Concentrate Insecticide, however, following such storage, agitate well before use.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact ADAMA Agricultural Solutions Canada Inc. at 1-800-535-5053 for further information.

For spills and leaks – contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces – sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container. Dispose of all waste, including broom, in accordance with provincial requirements.

On soil – remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste in accordance with provincial requirements. For more information on the disposal of waste and the clean-up of spills, contact the provincial regulatory agency and the manufacturer.

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 clean-up of spills.

CONTAINER 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.

IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 1-800-535-5053 (24 hours a day)

SILENCER 120 EC Emulsifiable Concentrate Insecticide

AGRICULTURAL

For the Control or Suppression of Listed Insects on Oilseeds, Cereals, Tree Fruit, Strawberries, Tobacco, Potatoes, Tomatoes, Cole Crops, Chokecherry, Legume Vegetables (Crop Group 6), Corn, Ferns of Asparagus, Timothy (For Seed Production Only), Sweet Potato, Carrots and Outdoor Ornamentals

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

PRECAUTIONS

- 1. KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food.
- 2. Fatal or poisonous if swallowed. Harmful if inhaled. Avoid inhaling/breathing vapour or spray. SILENCER 120 EC is severely irritating to the eyes and skin. Do not get in eyes or on skin. Potential skin sensitizer. If hands are contaminated, wash with soap and water before touching other areas of skin.
- 3. Wear long pants, a long-sleeved shirt, chemical-resistant gloves, socks and chemical resistant boots during mixing, loading application, clean-up and repair, unless otherwise specified below. Gloves are not required during application in a closed cab or cockpit. In addition, during mixing, loading, clean-up and repair activities, workers must also wear, safety goggles and a face shield. Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use.
- 4. For applications using an open-cab groundboom equipment, when handling more than 59.6 Lper person per day, also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides OR use a closed cab tractor that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab

must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Respirator and gloves are not required to be worn during application within a closed cab. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

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- 7. For application using handheld airblast/mistblower equipment, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides. DO NOT handle more than 42.5 Lper person per day. This restriction is required to minimize exposure to the worker. Applications may be required over multiple days or using multiple applicators.
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Crop(s)	Postapplication Activity	REI
C (Hand harvesting	3 days
Corn (sweet)	All other activities	12 hours
Carra (anad)	Hand detasseling	3 days
Corn (seed)	All other activities	12 hours
All other crops	All activities	12 hours

- 10. Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
- 11. SILENCER 120 EC Emulsifiable Concentrate Insecticide may be applied by air only to those crops for which this use is specified on this label.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

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 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.healthcanada.gc.ca/pollinators).

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

To reduce risk to aquatic organisms from runoff, a vegetative filter strip of at least 10 metres wide between the field edge and adjacent, downhill aquatic habitats must be observed, as specified under DIRECTIONS FOR USE

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

Greenhouse use: Toxic to beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm beneficial arthropods, including those used in greenhouse production. Avoid application when beneficial arthropods are in the treatment area.

STORAGE

Store this product away from food or feed.

Store in a cool, well ventilated area away from foodstuffs and out of the reach of children and animals. Store above 0°C. Storage below 0°C will not impair the effectiveness of SILENCER 120 EC Emulsifiable Concentrate Insecticide, however, following such storage, agitate well before use.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Adama Agricultural Solutions Canada Ltd. at 855-264-6262 for further information.

For spills and leaks – contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces – sprinkle spill area with detergent and scrub in a small quantity of water with

a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container. Dispose of all waste, including broom, in accordance with provincial requirements.

On soil – remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste in accordance with provincial requirements. For more information on the disposal of waste and the clean-up of spills, contact the provincial regulatory agency and the manufacturer.

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- 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.

IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 1-800-535-5053 (24 hours a day)

PRODUCT INFORMATION

SILENCER 120 EC Emulsifiable Concentrate Insecticide is a photostable, synthetic pyrethroid insecticide. It is a fast acting stomach and contact insecticide effective against a broad spectrum of foliar pests. It has no fumigant or systemic activity. Best results will be obtained with SILENCER 120 EC Emulsifiable Concentrate Insecticide when applied against the early development stages of the pest as determined by regular monitoring.

DIRECTIONS FOR USE

Control or suppression of some insect species with pyrethroid insecticides decreases as temperature rises. For best results, apply SILENCER 120 EC Emulsifiable Concentrate Insecticide during the early morning before temperatures rise, and during the evening, past the heat of the day. Use sufficient water for thorough coverage, 100 to 200 L/ha by ground sprayer.

DO NOT apply in greenhouses. Unless otherwise specified in the crop-specific use directions.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

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.

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be constructed and maintained. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries.

The VFS is to be composed of grasses and may also include shrubs, trees, or other vegetation. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages.

Both VFS and spray drift buffer zones must be observed.

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

Optimum application timing for the control of specific pest species is best determined by monitoring pest development and populations. In general, SILENCER 120 EC Emulsifiable Concentrate Insecticide is most effective against early developmental stages of surface feeding pests and against adults of pests which deposit eggs within plant parts. Follow recommendations provided by local pest monitoring services regarding appropriate application timing for your area. Follow provincial spray calendars for optimum timing of programmed spray applications.

Repeated applications are not advised for orchards where integrated pest management programs are being followed because severe reductions in beneficial arthropods may result. If pest monitoring services recommend repeated insecticide applications, consider alternating SILENCER 120 EC Emulsifiable Concentrate Insecticide applications with insecticides from different classes to prevent the development of resistant pest populations. Localized populations of some insect pests (e.g., Colorado Potato Beetle, Spotted Tentiform Leafminer) have developed resistance to other synthetic pyrethroid insecticides and can be expected to quickly develop resistance to SILENCER 120 EC Emulsifiable Concentrate Insecticide. Consult regional extension specialists regarding the susceptibility of local populations. Follow Integrated Pest Management (IPM) techniques to minimize the need for insecticide applications and ensure that needed applications are timed for optimum effectiveness.

GROUND APPLICATION:

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 by air, unless otherwise specified in the crop-specific use directions.

Generic Aerial Application Label Instructions – Directions for Use

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

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

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

Read and understand the entire label before using this product.

For aerial applications, ensure the aircraft is equipped and calibrated to deliver a uniform spray coverage with a minimum potential for drift. To ensure uniform application, use an appropriate marking device. Apply in weather conditions that will not promote drift.

Use nozzles rated to deliver medium-coarse droplets of volume median diameter of 340 microns or greater.

Apply in a spray volume of 40 litres per hectare.

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 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.

Clean and decontaminate protective clothing and application equipment regularly.

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.

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

• Uses with hand-held application equipment permitted on this label

The spray 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, sloµghs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

			Spray Buffer	Zones (metres) Re	quired for the P	Protection of:	
Method of	Crop		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
application			Less than 1 m	Greater than 1 m	Less than 1	Greater than 1 m	
Field sprayer	Barley, oats, wheat, carrots, fla (oilseed type), canola, sweet p (for seed production only), fer	otato, timothy	10	5	3	1	
	Alfalfa		15	5	3	1	
	Corn (including field, pop and crops grown for seed production ornamentals		25	10	5	3	
	Brassica crops: Broccoli, chine lon), brussels sprouts, cabbage cabbage (napa), cauliflower, k	, chinese cohlrabi					
	Legume Vegetables (including Dry Edible Beans, Succulent a field peas, Chickpeas, Lentils, Soybean)	30	15	5	3		
	Potatoes	10	5	4	2		
	Tomatoes						
	Strawberry	15	5	3	2		
	Field tobacco	2	1	1	1		
	Tobacco (soil treatment), tobac planting treatment)	5	2	3	1		
	Rye or wheat (tobacco cover c	rop treatment)	3	1	2	1	
Airblast	Chokecherry, shelterbelts	Early growth stage	55	45	50	40	
		Late growth stage	45	35	40	30	
	Pears	Early growth stage	60	50	50	40	
		Late growth stage	50	40	40	35	
	Apples, cherries, nectarines, peaches, plums, strawberries	Early growth stage	70	60	55	45	
		Late growth stage	60	50	45	35	
	Outdoor ornamentals	Early growth stage	80	70	60	50	
		Late growth stage	70	60	50	40	

Alfalfa, flax	Fixed wing	375	150	175	55
	Rotary wing	375	150	175	40
Lentils, potatoes, barley, wheat, oats, succulent and	Fixed wing	800	300	175	55
dry edible beans, succulent peas, field peas, dry peas and soybeans.	Rotary wing	575	300	175	40
Chickpeas, dry edible beans, fava beans, soybeans, – Legume Vegetables					
Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field)					
Canola, mustard (oilseed type)	Fixed wing	800	400	175	55
3 Applications		700	400	175	40
Corn (including field, pop	Fixed wing	800	800	800	250
grown for seed production)	Rotary wing	800	675	400	225
	Lentils, potatoes, barley, wheat, oats, succulent and dry edible beans, succulent peas, field peas, dry peas and soybeans. Chickpeas, dry edible beans, fava beans, soybeans,— Legume Vegetables Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) 3 Applications Corn (including field, pop and sweet types, and crops	Rotary wing Lentils, potatoes, barley, wheat, oats, succulent and dry edible beans, succulent peas, field peas, dry peas and soybeans. Chickpeas, dry edible beans, fava beans, soybeans, — Legume Vegetables Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) 3 Applications Rotary wing Rotary wing Rotary wing Fixed wing Fixed wing	Rotary wing 375 Lentils, potatoes, barley, wheat, oats, succulent and dry edible beans, succulent peas, field peas, dry peas and soybeans. Chickpeas, dry edible beans, fava beans, soybeans, — Legume Vegetables Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) 3 Applications Rotary wing 575 Fixed wing 800 Rotary wing 575 Rotary wing 7700 Fixed wing 800	Rotary wing 375 150 Lentils, potatoes, barley, wheat, oats, succulent and dry edible beans, succulent peas, field peas, dry peas and soybeans. Chickpeas, dry edible beans, fava beans, soybeans, — Legume Vegetables Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) 3 Applications Rotary wing 575 300 Fixed wing 800 400 Corn (including field, pop and sweet types, and crops	Rotary wing 375 150 175 Lentils, potatoes, barley, wheat, oats, succulent and dry edible beans, succulent peas, field peas, dry peas and soybeans. Chickpeas, dry edible beans, fava beans, soybeans, – Legume Vegetables Dwarf pea, edible-pod pea, snow pea, sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) 3 Applications Rotary wing 575 300 175 Rotary wing 575 300 175 Some sugar snap pea, english pea, garden pea, green pea, pigeon pea. Peas (Pisum spp.) (includes peas field) Canola, mustard (oilseed type) Rotary wing 700 400 175 Corn (including field, pop and sweet types, and crops

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 spray buffer zones for airblast application of this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site. Spray buffer zones for field sprayer or aerial application CANNOT be modified using the Spray Buffer Zone Calculator.

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When applied as directed, SILENCER 120 EC Emulsifiable Concentrate Insecticide will control the listed pests, unless otherwise indicated as suppression.

DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. **DO NOT** feed treated crops to livestock. For grasses/non-grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
FRUIT CROPS					
APPLES	Apple Aphid, Apple Brown Bug, Apple Leaf Midge, Codling Moth, Fruit Tree Leafroller, Oblique Banded Leafroller, Pale Apple Leafroller, Spotted Tentiform Leafminer, White Apple Leafhopper, Winter Moth	83	Ground	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT feed treated crops to livestock. DO NOT APPLY BY AIR.
	Plum Curculio, Tarnished Plant Bug, Woolly Apple Aphid	104	Ground		
CHERRIES	Plum Curculio, Cherry Maggot	104	Ground	Plum Curculio: Shuck stage, when the fruit is the size of a pea, and 10 to 12 days later if oviposition scars are detected. Cherry Maggot: When the fruit is turning from green to pink. A second application may be required 10 days later.	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT APPLY BY AIR.
PEACHES AND NECTARINES	Green Peach Aphid, Oriental Fruit Moth, Tarnished Plant Bug	104	Ground	Presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT APPLY BY AIR.
PEARS	Pear Psylla (nymphs and adults), Codling Moth	83	Ground	Presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	Do not apply within 7 days of harvest. Do not use more than 1 application per year. DO NOT APPLY BY AIR.
PLUMS	Plum Curculio, Mealy Plum Aphid	104	Ground	Plum Curculio: Shuck stage, when the fruit is the size of a pea, and 10 to 12 days later if oviposition scars are detected.	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT APPLY BY AIR.

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		Mealy Plum Aphid:	
		Control should be	
		based on local	

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
				monitoring for significant populations.	
STRAWBERRIES	Bud (Clipper) Weevil, Meadow Spittle Bug and Tarnished Plant Bug Black Vine Weevil adults (Suppression only)	104	Ground	Bud Weevil: when buds are visible in crown and again when first buds show white. Spittle Bug: when first noticed. Plant Bug: 7 to 10 days after first bloom and repeat 7 to 10 days later.	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT APPLY BY AIR. Black Vine Weevil adults For the suppression of black vine weevil adults, apply in sufficient water to ensure thorough coverage. The recommended application volume is 300-400 L/ha. Applications to be made as soon as weevils appear, and just after the final harvest of strawberries.
VEGETABLE CROPS					
COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower)	Crucifer Flea Beetle, Diamondback Moth Larvae, Imported Cabbageworm	42	Ground	Timing of applications should be based on the presence of vulnerable pest	Do not apply within 1 day of harvesting cabbage and 3 days of harvesting broccoli, Brussels sprouts or cauliflower. Do not use more
	Cabbage Looper	83		developmental stages and significant populations as determined by local monitoring.	than 3 applications per year. Allow a 7 day interval between treatments. DO NOT APPLY BY AIR.
CORN (including field, pop and sweet types, and crops grown for seed production)	Fall Armyworm, Cutworms European Corn Borer, Corn Earworm	83	Ground	Spray no later than when the first feeding is seen on foliage. Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. Where there are two generations, late plantings of sweet corn will require sprays from the late whorl stage until close to harvest. This treatment will not prevent internal cob damage if the insect has penetrated the ear. Cutworms (up to the 5-leaf stage): Applications should be made under moist	Do not apply within 1 day of harvest for sweet corn. Do not use more than 3 applications per year. DO NOT cut treated fields for silage/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/non-grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. Aerial Application: Do not make more than 2 applications per year by air.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
		83	Aerial	conditions in the evening or night when cutworm activity is highest. Do not disturb the soil surface for 5 days after treatment.	

Tank Mix with Bumper 418 EC Fungicide

SILENCER 120 EC Emulsifiable Concentrate Insecticide can be tank mixed with Bumper 418 EC Fungicide for insect and foliar disease control. Apply SILENCER 120 EC Emulsifiable Concentrate Insecticide at a rate of 83 mL/ha in tank mix with Bumper 418 EC Fungicide at a rate of 150-300 mL/ha. Refer to both the SILENCER 120 EC Emulsifiable Concentrate Insecticide and Bumper 418 EC Fungicide labels for insects and diseases controlled, specific application instructions and precautions. Insects and crops must be at the correct stage as specified on the SILENCER 120 EC Emulsifiable Concentrate Insecticide as well as Bumper 418 EC Fungicide labels.

This tank mix can be applied by air and ground. Use 40 L of water per hectare when applying by air.

This tank mix is not registered for use on popcorn.

Do not harvest treated corn within 14 days of this tank-mix application.

Do not make more than 3 applications on seed corn and 2 applications on field and sweet corn per year.

DO NOT cut treated fields for silage/forage. DO NOT graze treated fields. DO NOT feed grain to livestock. For grasses/non-grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock.

Compatibility should always be confirmed by premixing small proportional quantities of water, SILENCER 120 EC Emulsifiable Concentrate Insecticide, and the tank-mix partner in advance.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
POTATOES	Potato Flea Beetle, Potato Leafhopper,	83	Ground	When insects or damage appear.	The maximum rate per season must not exceed 250
	Tarnished Plant Bug, Tuber Flea Beetle	83	Aerial	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	mL of product per hectare. Do not apply within 7 days of harvest. DO NOT feed treated crops to livestock. Do not use more than 3 applications per year if using the 83 mL per hectare rate. Do not use more than 2 applications per year if using the 125 mL per hectare rate.
	Colorado Potato Beetle: susceptibility	83 to 125	Ground	Use 125 mL rate when Colorado	Allow a 7 day interval between treatments.
	to pyrethroid insecticides should be confirmed using an appropriate assay.	83	Aerial	Potato Beetle larvae are beyond the second instar stage of development or when populations are high.	Use a minimum of 100 L water for ground application. Use sufficient water for thorough coverage. Aerial Application: Do not make more than 2
	European corn borer	83	Ground	Spray at egg hatch	applications of 83 mL/ha of the allowed seasonal total by

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
		83	Aerial	and no later than when the first feeding damage is seen on foliage. Reapply at 4 to 7 day intervals if monitoring indicates that it is necessary. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment.	air.
TOMATOES	Potato Flea Beetle, Potato Leafhopper, Tarnished Plant Bug Cutworms	83	Ground	When insects or damage appear. Timing of applications should be based on the	Do not apply within 7 days of harvest. Do not use more than 3 applications per year if using the 83 mL per hectare rate. Do not use more than 2
	Colorado Potato Beetle: susceptibility to pyrethroid insecticides should be confirmed using an appropriate assay.	83-125		presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Cutworms (up to the 5- leaf stage): Applications should be made under moist conditions in the evening or night when cutworm activity is highest. Do not disturb the soil surface for 5 days after treatment. Colorado Potato Beetle: Use 125 mL per hectare rate when Colorado Potato Beetle larvae are beyond the second instar stage of development, or when populations are high.	applications per year if using the 125 mL per hectare rate. Allow a 7 day interval between treatments. The maximum rate per season must not exceed 250 mL of product per hectare. DO NOT APPLY BY AIR.
TOBACCO					
TOBACCO Seedlings, Greenhouse	Cutworm (Darksided and White)	2 mL/30 L water	Ground		Mix 2 mL of SILENCER 120 EC Emulsifiable Concentrate Insecticide in 30 L of water and apply to 200 m ² of plant bed. DO NOT APPLY BY AIR.
FIELD TOBACCO	Darksided cutworm and white cutworm	2 mL/30 L water	Ground	Cutworm activity is greatest during the late evening and	By methods given below, apply the recommended rate of SILENCER 120 EC

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
				night. Application of SILENCER 120 EC Emulsifiable Concentrate Insecticide should be timed as close as possible to insect feeding activity.	Emulsifiable Concentrate Insecticide in 225 to 450 L of water per hectare using spray pressure of 175 to 350 kPa. DO NOT APPLY BY AIR.
WHEAT or RYE, TOBACCO COVER CROP TREATMENT		42	Ground	When crop is 10 to 15 cm high, 4-5 days before ploughdown.	Apply 42 mL of SILENCER 120 EC Emulsifiable Concentrate Insecticide per hectare once to rye or wheat cover. Application should also be made to fence rows and to a 15 m strip into nearby cover crop. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT APPLY BY AIR.
SOIL TREATMENT		83	Ground	Apply once to the soil 5 days before transplanting.	Do not incorporate. Do not disturb the soil surface for at least 5 days following treatment since mixing of SILENCER 120 EC Emulsifiable Concentrate Insecticide with soil will reduce its effectiveness. Application should also be made to fence rows and to a 15 m strip into nearby cover crops. DO NOT APPLY BY AIR.
POST PLANTING TREATMENT		83	Ground	At transplanting	Spray in a 25 cm band over the row using 150 to 300 L of water per hectare. Under conditions of severe insect pressure, application should be made to fence rows and to a 15 m wide strip into nearby cover crops. A follow-up treatment with another insecticide registered for this use may be necessary if there are late developing cutworms. Do not use more than 1 application per year. Do not apply within 60 days of
					harvest. DO NOT APPLY BY AIR.
OILSEED CROPS					
CANOLA AND	Crucifer Flea Beetle,	83	Ground	For Cabbage	To prevent migration of

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
MUSTARD (OILSEED TYPE)	Lygus Bug Cabbage Seedpod Weevil (adults)	83	Aerial	Seedpod Weevil (adults): Apply at the bud to early flowering stage of crop development. Timing of applications should also be based on the presence of significant populations of adults, as determined by local monitoring. Application prior to adult migration into the field will not be effective. SILENCER 120EC Emulsifiable Concentrate Insecticide will not control larvae developing within the pod, and must be applied prior to egg laying.	overwintering flea beetle adults throughout the field, ground-spray a 15 m strip around the field at the first sign of flea beetle feeding. Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/nongrasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. For cabbage seedpod weevil: make only 1 application per season by either ground or aerial application equipment. Aerial Application: Do not make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
	Imported Cabbageworm	83	Ground	Apply when the insects are at a	Do not apply within 7 days of harvest.
	Diamondback Moth Larvae Cabbage Looper Bertha Armyworm	83	Aerial	vulnerable stage (early larval instars). Consult provincial guidelines and local extension experts for treatment threshold and advice.	Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/non- grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. Aerial Application: Do not make more than 1 application of 83 mL/ha of the allowed seasonal total by air. DO NOT cut treated fields for
	Grasshoppers	63-83	Ground	Apply the low rate	hay/forage. DO NOT graze

	83	Aerial	when grasshoppers are up to the 3rd nymphal stage (up to 1 cm in length) or when insect numbers are low. Apply the high rate when grasshoppers are larger, up to but not including winged adults (up to 2.5 cm in length) or when insect numbers are high. If insect pressure is high apply a spray to a 15 m strip around the field. Avoid environmentally sensitive areas and unregistered crops.	treated fields. DO NOT feed treated crops to livestock. For grasses/non-grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
FLAX	Grasshoppers	83	Ground Aerial	Apply the low rate when grasshoppers are up to the 3rd nymphal stage (up to 1 cm in length) or when insect numbers are low. Apply the high rate when grasshoppers are larger, up to but not including winged adults (up to 2.5 cm in length) or when insect numbers are high. If insect pressure is high apply a spray to a 15 m strip around the field. Avoid environmentally sensitive areas and	Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/nongrasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. Aerial Application: Do not make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
CEREAL CROPS				unregistered crops.	
WHEAT, BARLEY, OATS	Grasshoppers	83	Ground	Apply the low rate when grasshoppers are up to the 3rd nymphal stage (up to 1 cm in length) or when insect numbers are low. Apply the high rate when grasshoppers are larger, up to but not including winged adults (up to 2.5 cm in length) or when insect numbers are high. If insect pressure is high apply a spray to a 15 m strip around the field. Avoid environmentally sensitive areas and unregistered crops.	In wheat, do not apply within 28 days of harvest. In barley and oats do not apply within 28 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/nongrasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. Aerial Application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.

CROPS PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
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Tank mix with Bison™ 400L or ACHIEVE Liquid Herbicide

SILENCER 120 EC Emulsifiable Concentrate Insecticide can be tank mixed with BisonTM 400L or ACHIEVE Liquid Herbicide for one pass grasshopper and wild oat control in spring wheat and spring barley, if monitoring of grasshopper populations indicates application is necessary and timing is correct. A reduction in control of green foxtail and yellow foxtail may be observed when SILENCER 120 EC Emulsifiable Concentrate Insecticide is tank mixed with BisonTM 400L or ACHIEVE Liquid Herbicide. Consult BisonTM 400L or ACHIEVE Liquid Herbicide labels for use instructions and rates. For ground application only. DO NOT APPLY BY AIR.

OTHER USES

ALEALEA	C	62.02	C1	A	D
ALFALFA,	Grasshoppers	83	Ground Aerial	Apply the low rate when grasshoppers are up to the 3rd nymphal stage (up to 1 cm in length) or when insect numbers are low. Apply the high rate when grasshoppers are larger, up to but not including winged adults (up to 2.5 cm in length) or when insect numbers are high. If insect pressure is high apply a spray to a 15 m strip around the field. Avoid environmentally sensitive areas and unregistered crops.	Do not use more than 3 applications per year. Allow a 7 day interval between treatments. Alfalfa seed from treated crops is not to be used for production of 'alfalfa sprouts' for human consumption. DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/nongrasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock. Aerial Application: Do not make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
ALFALFA	Alfalfa Weevil, Lygus Bug, Tarnished Plant Bug, Pea Aphid, Potato Leafhopper	83	Ground	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	DO NOT cut treated fields for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. For grasses/non-grasses grown for seed production only, DO NOT feed seed screenings and aftermath to livestock.

ALFALFA Rate Conversion Chart

Rate (mL/ha)	Hectares treated with 1 L products
42	23.8
63	15.9
83	12.0
104	9.6
125	8.0

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than ADAMA Agricultural Solutions Canada Inc. (ADAMA). under the User Requested Minor Use Label Expansion program. For these uses, ADAMA 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.

DIRECTIONS FOR USE

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
Choke Cherry shelterbelts	Prairie Tent Caterpillar, Ugly Nest Caterpillar, Fruit tree Leafroller	58	Ground only	Prairie Tent Caterpillar: Apply prior to flowering when tents are visible, generally mid to late May. Ugly Nest Caterpillar: Apply after flowering when tents are first visible, generally early to mid June. Fruit tree Leafroller: Apply after flowering when damage is first noted, generally early to mid June.	Apply as a foliar spray so leaves are wet but not dripping. Do not use more than 1 application per year. Use 1000 L/ha of water for thorough coverage. DO NOT APPLY BY AIR.
BRASSICA CROPS	1		l	l	1
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Swede Midge (Contarinia nasturtii)	83	Ground only	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.	Do not apply within 1 day of harvesting cabbage and 3 days of harvesting broccoli, Brussels sprouts or cauliflower. Do not use more than 3 applications per crop per year (249 mL product/year). Allow at least a 7 day interval between treatments. Use sufficient water for thorough coverage, 100 to 200 L/ha by ground sprayer.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
					DO NOT APPLY BY AIR.
	Onion Thrips	188	Ground application only	Apply when the insect first appears	Apply by foliar broadcast spray.
					DO NOT apply within 1 day of harvesting cabbage and 3 days of harvesting all other Brassica crops
Silencer may be applied to the following Brassica crops only: Broccoli, Chinese broccoli (gai lan), Brussels sprouts, cabbage, Chinese cabbage (napa), cauliflower and kohlrabi					
					DO NOT apply more than 3 applications per growing season.
					Allow a 7 day interval between treatments.
					DO NOT apply by air.
					Apply in sufficient water to ensure thorough coverage.
					A water volume of 500 L/ha is recommended

LEGUME VEGETABLES

CROPS	PEST	RATE mL/HA	APPLICATION METHOD	APPLICATION TIMING	NOTES
Soybean	Soybean aphids ¹ Pea Aphid ¹ Bean aphid ¹	83-233	Ground or aerial application	The need and timing of application should be based on the presence of vulnerable pest developmental stages and	Unless otherwise indicated, repeat sprays at 4 to 7 day intervals

Western bean cutworm ^{3,5}	83-187	significant populations as	depending on the presence of
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BEANS, succulent and dry edible*	Grasshoppers Cutworms ³ Lygus bugs Bean Leaf beetle ² Soybean aphids ¹ Pea Aphid ¹ Bean aphid ¹	83 83-233 83 83-233	Ground application only Aerial	determine by local monitoring. ¹ For aphids, use the higher rate when conditions favour rapidly increasing aphid populations. Repeat sprays at 7 day intervals depending on the presence of significant populations as determined by local monitoring. Provincial soybean aphid management guidelines suggest applying insecticide during the flowering growth stage of soybean development. ² For bean leaf beetle, use the	Provincial soybean aphid management guidelines suggest applying insecticide during the flowering growth stage of soybean development. Provincial to soybean development. Provincial soybean development. Provincial soybean development.	determined by local monitoring. DO NOT apply within 14 days of harvesting for edible podded peas, succulent shelled beans (including succulent fava beans), and succulent shelled peas. PHI 21 days for
	Western bean cutworm ^{3,5}	83-187	Ground or aerial application	populations or when conditions are conducive to bean pod mottle virus. Repeat sprays at 4 to 7 day intervals depending	and dry beans (including lentils, lupins, chickpeas	
	Cutworms ³ Corn Borer ⁴ Potato Leaf Hopper Lygus bugs	83	Ground or aerial application	on the presence of significant populations as determined by local monitoring. 3 Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity.	and dry fava beans). PHI 7 days for edible podded beans. DO NOT use more than 3 applications	
	Bean Leaf beetle ²	83	Aerial	⁴ For Corn borer control, apply before the larva bores into the plant stalk or pods.	per season. DO NOT cut treated field for hay/forage. DO	
		83-233	Ground Application only	⁵ For western bean cutworm control repeat sprays at 4-7 day intervals. Consult local agricultural personnel and provincial guidelines on the use of this product.	hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. Water Volume: For ground application: 100 to 200 L/ha For aerial application: apply in a spray	
*Beans, succul	ent and dry edible:	Beans (Phase	eolus spp.) (includes, runn	er bean, snap beans, wax beans, lir	volume of 40 L/ha na bean (green),	

*Beans, succulent and dry edible: Beans (Phaseolus spp.) (includes, runner bean, snap beans, wax beans, lima bean (green), field bean, kidney bean, navy bean, Pinto bean, tepary bean); bean (Vigna spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean, adzuki bean, mung bean, rice bean, urd bean; blackeyed pea, catjang, cowpea, southern pea, crowder pea); jackbean; sword bean; bean (Lupinus spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin), lablab bean, guar.

Tank Mix with Headline EC Fungicide (Pyraclostrobin 250 g/L) **on Dry Field Peas:** Silencer 120 EC may be tank mixed with Headline EC Fungicide to control insects and diseases listed on the label of each product.

Read carefully and follow all use directions and use precautions on both the Silencer 120 EC and Headline EC Fungicide labels. Failure to follow the rates of use and timing of application as

recommended for each product will result in unsatisfactory control of target pest.

CROPS	PEST	RATE mL/HA	APPLICATIO N METHOD	APPLICATION TIMING	NOTES		
PEAS, succulent: Pea (Pisum spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea, English pea, garden pea, green pea), pigeon pea	Soybean aphids ¹ Pea Aphid ¹ Bean aphid ¹ Western bean cutworm ^{3,5} Cutworms ³ Potato Leaf Hopper	83-233 83-187 83	Ground or aerial application	TIMING The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determine by local monitoring. ¹ For aphids, use the higher rate when conditions favour rapidly increasing aphid	application should be based on the presence of vulnerable pest developmental stages and significant populations as determine by local monitoring. The properties of sprays interval on the significant populations as determine by local monitoring. The properties of sprays interval on the significant populations as determine by local monitoring. The properties of sprays interval on the significant populations are significant populations. The presence of sprays interval on the significant populations are significant populations.	The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determine by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. The need and timing of unless otherwise indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring.	indicated, repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 14 days of
	Bean Leaf beetle ²	83-233	Ground application only Aerial	populations. Repeat sprays at 7 day intervals depending on the presence of significant populations as determined	harvesting for edible podded peas, succulent shelled beans (including		
Peas Field	Soybean aphid ¹ Pea Aphid ¹ Bean aphid ¹	83-233	Ground or aerial application	by local monitoring. Provincial soybean aphid management guidelines suggest applying insecticide during the flowering growth stage of soybean development. ² For bean leaf beetle, use	succulent fava beans), and succulent shelled peas. PHI 21 days for soybean, dry peas and dry beans (including lentils,		
	Western bean cutworm ^{3,5} Pea leaf	83-187		the higher rate to target higher pest populations or when conditions are conducive to bean pod mottle virus.	lupins, chickpeas and dry fava beans). PHI 7 days for edible podded beans.		
	weevil (Sitona lineate) ⁴			3Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity. 4Make the first application DO NOT use than 3 applic per season. DO NOT cut field for hay/it po NOT grates treated fields.	DO NOT use more than 3 applications		
PEAS, dry: Pea (<i>Pisum</i> spp.) (includes field pea), pigeon pea	Soybean aphids ¹ Pea Aphid ¹ Bean aphid ¹	83-233	Ground or aerial application		DO NOT cut treated field for hay/forage. DO NOT graze treated fields. DO NOT feed treated		
	Western bean cutworm ^{3,5}	83-187		the 5 to 6 node stage. Apply while the adults are still present on the plants, before	crops to livestock. Aerial Application:		
	Grasshoppers Cutworms ³	83		egg laying begins. ⁵ For western bean cutworm control repeat sprays at 4-7day intervals.	Do not make more than 2 applications of 83 mL/ha of the allowed seasonal		
	Bean Leaf beetle ²	83-233	Ground application only	Consult local agricultural personnel and provincial guidelines on the use of this product.	total by air. Water Volume: For ground application: 100 to		
		83	Aerial		200 L/ha For aerial application: apply in a spray volume of 40 L/ha		

CROPS	PEST	RATE	APPLICATION	APPLICATION	NOTES
		mL/HA	METHOD	TIMING	

Fava beans (broad beans)	Soybean aphids¹ Pea Aphid¹ Bean aphid¹ Western bean cutworm³,⁴ Lygus bugs Potato Leafhopper Bean Leaf beetle²	83-233 83-187 83 83-233	Ground or aerial application Ground application only Aerial	The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determine by local monitoring. ¹ For aphids, use the higher rate when conditions favour rapidly increasing aphid populations. Repeat sprays at 7 day intervals depending on the presence of significant populations as determined by local monitoring. Provincial soybean aphid management guidelines suggest applying insecticide during the flowering growth stage of soybean development. ² For bean leaf beetle, use the higher rate to target higher pest populations or when conditions are conducive to bean pod mottle virus. ³ Cutworm activity is greatest during the late evening and night. Application of Silencer 120 EC Insecticide should be timed as close as possible to insect feeding activity. ⁴ For western bean cutworm control repeat sprays at 4-7	on the presence of vulnerable pest developmental stages and significant populations as determine by local monitoring. ¹For aphids, use the higher rate when conditions favour rapidly increasing aphid populations. Repeat sprays at 7 day intervals depending on the presence of significant populations as determined by local monitoring. Provincial soybean aphid management sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. Provincial soybean aphid management	sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 14 days of harvesting for edible podded peas, succulent shelled beans (including succulent fava (beans), and
Chickpeas	Soybean aphids¹ Pea Aphid¹ Bean aphid¹ Western bean cutworm³,⁴ Grasshoppers Potato Leaf hoppers Cutworms³ Bean Leaf beetle²	83-233 83-187 83 83-233	Ground or aerial application Ground application only Aerial		succulent shelled peas. PHI 21 days for soybean, dry peas and dry beans (including lentils, lupins, chickpeas and dry fava beans). PHI 7 days for edible podded beans DO NOT use more than 3 applications per season. DO NOT cut treated field for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. Aerial application:	
Lentils	Soybean aphids¹ Pea Aphid¹ Bean aphid¹ Western bean cutworm³,⁴ Grasshoppers Lygus Bugs Potato Leaf Hopper cutworms³	83-233 83-187 83	Ground or aerial application Ground or aerial application	day intervals. Consult local agricultural personnel and provincial guidelines on the use of this product.	Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. Water Volume: For ground application: 100 to 200 L/ha For aerial application: apply in a a spray volume of 40 L/ha	

FERNS OF ASPARAGUS		
CROPS PEST RATE APPLICATION METHOD	APPLICATION TIMING	NOTES
Ferns of European 83 ml of Ground	Apply post-harves	st to DO NOT apply
Asparagus product per application	fern only.	more than 3
Aphids hectare in only.	Reapply after 7-1 if monitoring indi	
of water per	further application	ns are Preharvest
hectare	required.	interval. DO NOT apply
		by air.
FIELD AND SWEET CORN	A DDI TO A WION	Nomed
CROPS PEST RATE APPLICATION METHOD	APPLICATION TIMING	NOTES
Corn, Field Armyworm 83 Ground	Spray no later	Repeat sprays at 4-7 day
and Sweet (Pseudaletia application.	than when first	
unipuncta) 83 Aerial		intervals depending on
unipuncta) 83 Aerial application.	feeding damage is seen on foliage.	intervals depending on the presence of
	feeding damage is	intervals depending on the presence of significant populations as determined by local
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring.
	feeding damage is	intervals depending on the presence of significant populations as determined by local
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season.
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed treated crops to
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. DO NOT feed seed screenings and
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. DO NOT feed seed screenings and aftermath to livestock.
	feeding damage is	intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply more than 3 applications per hectare in total per season. DO NOT apply more than 2 applications by air. DO NOT cut treated field for silage/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. DO NOT feed seed screenings and

		Aerial Application: Apply in 40 L of water per hectare.
		water per nectare.

Corn, Field, Sweet, Pop and Seed.	European corn borer (Ostrinia nubilalis) and Corn earworm (Helicoverpa zea)	187 187	Ground application. Aerial application.	Spray no later than when first feeding damage is seen on foliage. Where there are two generations, late plantings of sweet corn will require sprays	Sweet Corn: DO NOT apply within 1 day of harvest. Field corn, popcorn and corn grown for seed: DO NOT apply within 21 days of harvest.
				will not prevent internal cob damage if the insect has penetrated the ear.	

TIMOTH	ΓΙΜΟΤΗΥ (for seed production only)							
CROP	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES			
Timothy (for seed productio n only)	Grasshoppers	63 – 83 ml product/ha in 100 – 200 L/ha water	Ground application only.	Apply the low rate when grasshoppers are up to the 3rd nymphal stage (up to 1 cm in length) or when insect numbers are low. Apply the high rate when grasshoppers are larger, up to but not including winged adults (up to 2.5 cm in length) or when insect numbers are high. If insect pressure is high apply a spray to a 15 m strip around the field. Avoid environmentally sensitive areas and unregistered crops.	DO NOT apply more than 3 applications per season. Allow 7 days between applications. DO NOT apply within 14 days of harvest. DO NOT apply by air.			
SWEET F	РОТАТО				DO NOT cut treated field for hay/forage. DO NOT graze treated fields. DO NOT feed seed screenings and aftermath to livestock.			
O ITELL I	0 1/110							

APPLICATION

METHOD

NOTES

APPLICATION TIMING

RATE

(mL/ha)

CROP

PEST

Sweet	Potato Flea	83 mL of	Ground application only.	Timing of application	DO NOT apply
Potato	Beetle Tuber Flea Beetle Potato Leafhopper	product/ha Apply in a minimum of 100 L of water/ha		should be based on the presence of vulnerable pest development stages and significant population as determined by local monitoring.	more than 3 applications per year. Allow 7 days between applications. DO NOT apply within 7 days of harvest. DO NOT apply by air.

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
Wheat, Barley and Oats	Armyworm (Pseudaletia unipuncta)	83	Ground application.	Spray no later than when first feeding damage	Repeat sprays at 4- day intervals depending on the
		83	Aerial application.	is seen on foliage.	presence of significant populations as determined by loca monitoring.
					DO NOT apply more than 3 applications per year.
					DO NOT apply more than 2 applications of 83 mL/ha of the allow seasonal total by a
					DO NOT cut treat field for hay/forag DO NOT graze treated fields. DO NOT feed treated crops to livestock.
					DO NOT feed seed screenings and aftermath to livestock.
					Ground Application: Appl in 100 - 200 L of water per hectare.
					Aerial Application Apply in 40 L of water per hectare.

			DO NOT apply within 28 days of harvest.
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CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
Potatoes	Armyworm (Pseudaletia unipuncta)	83	Ground application. Aerial application.	Spray no later than when first feeding damage is seen on foliage.	Repeat sprays at 4-7 day intervals depending on the presence of significant populations as determined by local monitoring.
					DO NOT feed treated crops to livestock.
					DO NOT apply more than 3 applications per year for ground.
					DO NOT apply more than 2 applications of 83 mL/ha of the allowed seasonal total by air.
					Ground Application: Apply in 100 - 200 L of water per hectare.
					Aerial Application: Apply in 40 L of water per hectare.
					DO NOT apply within 7 days of harvest.

CARROT					
CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
Carrots	Carrot Rust Fly (Psila rosae) Carrot weevil Listronis oregonensis	83	Ground application only.	First application should be applied at the 2-3 leaf stage when insects or damage appear. Timing of applications should be based on the presence of	Allow 7 days between applications DO NOT apply within 7 days of harvest DO NOT apply more than 3 applications

	vulnerable pest developmental	per year
	stages and significant	DO NOT feed treated crops to livestock.
	populations as determined by local	
	monitoring	DO NOT APPLY BY
		AIR

CROPS	PEST	RATE (mL/ha)	APPLICATION METHOD	APPLICATION TIMING	NOTES
Canola	Swede midge	83	Ground or aerial	Timing of	Allow a 7 day
	(Contarinia		application	applications	interval between
	nasturtii)			should be based	treatments.
				on the presence	DO NOT app
				of vulnerable pest	within 7 days
				developmental	harvest.
				stages and	DO NOT use
				significant	more than 3
				populations as	applications p
				determined by	year.
				local	DO NOT cut
					treated field
					hay/forage. I
					NOT graze treated fields
					NOT feed tre
					crops to lives
					DO NOT fee
					seed screening
					and aftermatl
					livestock.
					Aerial
				monitoring.	Application: l
					NOT make m
					than 1 applica
					of 83 mL/ha o
					the allowed
					seasonal total
					air.
					Water Volum
					Ground
					Application:
					Apply in 100
					200 L of wate
					per hectare.
					Aerial
					Application:
					Apply in 40
					L of water per
					hectare.

CROPS	PEST	RATE (mL/100 L)	APPLICATION METHOD	APPLICATION TIMING	NOTES
OUTDOOR ORNAMENTALS	Black Vine Weevil adults	30	Ground application	Apply when adult Black Vine Weevils and feeding injury are first detected. Allow	DO NOT APPLY BY AIR. Do not apply more than three applications per year.

		a 7 day interval between	Apply in sufficient water to ensure	Ì
		treatments.	thorough	ı
		treatments.	coverage, to a	ì
			maximum volume	1
			of 750 L/ha.	ı

Do not use in residential areas. Residential areas are defined as any use site where by-standers including children could be exposed during or after application. This includes homes, schools, public buildings, or any other areas where the general public, including children, could be exposed.

Resistance-Management Recommendations

For resistance management, please note that SILENCER 120 EC Emulsifiable Concentrate Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to SILENCER 120 EC Emulsifiable Concentrate Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of SILENCER 120 EC Emulsifiable Concentrate Insecticide or other Group 3 insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Adama Agricultural Solutions Canada Ltd. company representatives at 855-264-6262.

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