

GROUP 3 INSECTICIDE

MATADOR® 120EC
Emulsifiable Concentrate Insecticide

AGRICULTURAL

For the Control of Labelled Insects on Labelled Crops.

GUARANTEE:

Lambda-cyhalothrin 120 g/L

**READ THE LABEL AND THIS PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

DANGER



POISON

**DANGER: EYE IRRITANT AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO: **24984**
PEST CONTROL PRODUCTS ACT

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N1G 4Z3
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NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a doctor or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. 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 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 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 inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION

This product contains more than 80 percent petroleum distillate. Vomiting may cause aspiration pneumonia. If swallowed, perform gastric lavage, taking care to prevent aspiration of gastric contents; treat symptomatically. 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.

PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food.
2. Fatal/poisonous if swallowed. MATADOR[®] 120EC is corrosive to eyes and skin. Skin sensitizer. Do not get in eyes or on skin. If hands are contaminated, wash with soap and water before touching other areas of skin. When applying this product workers should wear long pants, a long-sleeved shirt, and chemical resistant boots. In addition, during mixing, loading, clean-up and repair activities, workers must also wear chemical resistant gloves, safety goggles and a face shield, and either a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a

NIOSH/MSHA/PHSE approved canister for pesticides. Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use. May be fatal if inhaled. DO NOT breathe sprays or vapours.

3. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Workers shall be given oral warning of the re-entry interval.
4. MATADOR 120EC may be applied aurally 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 HAZARDS

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

This product is toxic to bees when exposed to direct treatment, drift, or residues on flowering crops or weeds. **DO NOT** apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Spray deposits should be dry before bees commence foraging in treated crop.

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.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

Store 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 MATADOR 120EC, 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 Syngenta Crop Protection Canada, Inc. (See EMERGENCY NUMBER) 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.

DECONTAMINATION AND DISPOSAL

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 1-800-327-8633 (FASTMED)***

PRODUCT INFORMATION

MATADOR 120EC 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 MATADOR 120EC when applied against the early development stages of the pest as determined by regular monitoring.

DIRECTIONS FOR USE

Control of some insect species with pyrethroid insecticides decreases as temperature rises. For best results, apply MATADOR 120EC 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.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. 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.

Optimum application timing for the control of specific pest species is best determined by monitoring pest development and populations. In general, MATADOR 120EC 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 MATADOR 120EC 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 MATADOR 120EC. 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.

AERIAL APPLICATION

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. Suggested conditions for good aerial application are moderate temperatures (less than 25 °C), moderate relative humidity (greater than 40%), and light winds (3 to 9 kph).

Use only medium or coarse nozzles rated as delivering droplets of volume median diameter of 300 microns or greater. Examples: 6506 flat fan, CP 0.125 deflector nozzle with a low shear deflector angle (30 degrees), D12-56 disc-core.

Apply in a spray volume of 10 to 40 litres per hectare. Use water volumes at the higher end of this range to ensure good coverage for optimum insect control and to minimize drift. Do not apply more than 83 mL MATADOR 120EC per hectare per treatment occasion by air.

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 16 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) medium classification. 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.

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment. The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitats of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	All field crops		15	15	15	15
Airblast	All orchard fruit crops	Early or late growth stage	80	80	80	80
Aerial	Potatoes, oilseed crops, cereal crops, alfalfa, unimproved pasture, summerfallow	Fixed or rotary wing	100	20	100	100
	Corn	Fixed wing	225	20	800	800
		Rotary wing	250	15	800	500
	Legume vegetables	Fixed wing	600	25	800	800
		Rotary wing	300	20	800	525

For tank-mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank-mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank-mix partners.

Clean and decontaminate protective clothing and application equipment regularly.

DIRECTIONS FOR USE

FRUIT CROPS	
CROPS	APPLES
PEST	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
RATE (mL/ha)	83
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.
CROPS	APPLES
PEST	Plum Curculio, Tarnished Plant Bug, Woolly Apple Aphid
RATE (mL/ha)	104
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.
CROPS	CHERRIES
PEST	Plum Curculio, Cherry Maggot
RATE (mL/ha)	104
APPLICATION METHOD	Ground application
APPLICATION TIMING	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.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.

FRUIT CROPS	
CROPS	PEACHES AND NECTARINES
PEST	Green Peach Aphid, Oriental Fruit Moth, Tarnished Plant Bug
RATE (mL/ha)	104
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.
CROPS	PEARS
PEST	Pear Psylla (Nymphs and Adults), Codling Moth
RATE (mL/ha)	83
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	DO NOT apply within 7 days of harvest. DO NOT use more than 1 application per year. DO NOT APPLY BY AIR.
CROPS	PLUMS
PEST	Plum Curculio, Mealy Plum Aphid
RATE (mL/ha)	104
APPLICATION METHOD	Ground application
APPLICATION TIMING	Plum Curculio: Shuck stage, when the fruit is the size of a pea, and 10 to 12 days later if oviposition scars are detected. Mealy Plum aphid: Control should be based on local monitoring for significant populations.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.

FRUIT CROPS	
CROPS	STRAWBERRIES
PEST	Bud (Clipper) Weevil, Meadow Spittle Bug and Tarnished Plant Bug
RATE (mL/ha)	104
APPLICATION METHOD	Ground application
APPLICATION TIMING	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.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR.
VEGETABLE CROPS	
CROPS	COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower)
PEST	Crucifer Flea Beetle, Diamondback Moth Larvae, Imported Cabbageworm
RATE (mL/ha)	42
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. 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 year. DO NOT APPLY BY AIR.
CROPS	COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower)
PEST	Cabbage Looper
RATE (mL/ha)	83
APPLICATION METHOD	Ground application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. 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 year. DO NOT APPLY BY AIR.

VEGETABLE CROPS	
CROPS	CORN (including field, pop and sweet types, and crops grown for seed production)
PEST	Fall Armyworm, Cutworms
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>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.</p> <p>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.</p>
NOTES	<p>Allow a 4 to 7 day interval between treatments. DO NOT apply within 1 day of harvest for sweet corn. DO NOT apply within 14 days if the crop is being harvested for silage. DO NOT use more than 3 applications per year.</p> <p>Aerial Application: DO NOT make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p>
<p>Tank-Mix with TILT® 250E Fungicide: MATADOR 120EC can be tank-mixed with TILT 250E Fungicide for insect and foliar disease control. Apply MATADOR 120EC at a rate of 83 mL/ha in tank-mix with TILT 250E Fungicide at a rate of 250-500 mL/ha. Refer to both the MATADOR 120EC and TILT 250E 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 MATADOR 120EC as well as TILT 250E Fungicide labels.</p> <p>This tank-mix can be applied by air and ground. Use 40 L of water per hectare when applying by air.</p> <p>This tank-mix is not registered for use on popcorn.</p> <p>Do not harvest treated corn within 14 days of this tank-mix application.</p> <p>Do not make more than 3 applications on seed corn and 2 applications on field and sweet corn per year.</p> <p>Compatibility should always be confirmed by premixing small proportional quantities of water, MATADOR 120EC, and the tank-mix partner in advance.</p>	
<p>Tank-Mix with QUADRIS® Flowable Fungicide: Seed Corn, Field Corn and Sweet Corn - MATADOR 120EC can be tank-mixed with QUADRIS Flowable Fungicide for insect and foliar disease control. Apply MATADOR 120EC at a rate of 83 mL/ha in tank-mix with QUADRIS Flowable Fungicide at a rate of 453 mL/ha. Refer to both the MATADOR 120EC and QUADRIS Flowable 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 MATADOR 120EC as well as QUADRIS Flowable Fungicide labels.</p> <p>This tank-mix can be applied by air and ground. Use 200 L of water per hectare when applying by ground. Use 45 L of water per hectare when applying by air.</p> <p>This tank-mix is not registered for use on popcorn.</p> <p>Do not harvest treated corn within 14 days of this tank-mix application.</p> <p>Do not make more than 2 applications per year.</p> <p>Compatibility should always be confirmed by premixing small proportional quantities of water, MATADOR 120EC, and the tank-mix partner in advance.</p>	

VEGETABLE CROPS	
CROPS	POTATOES
PEST	Potato Flea Beetle, Potato Leafhopper, Tarnished Plant Bug, and Tuber Flea Beetle
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	When insects or damage appear. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	<p>Allow a 7 day interval between treatments.</p> <p>Use sufficient water for thorough coverage. The maximum rate per season must not exceed 250 mL of product per hectare.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT use more than 3 applications per year if using the 83 mL per hectare rate.</p> <p>Aerial Application: DO NOT make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>Use a minimum of 100 L water for ground application.</p>
CROPS	POTATOES
PEST	European Corn Borer
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Spray at egg hatch 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.
NOTES	<p>The maximum rate per season must not exceed 250 mL of product per hectare.</p> <p>Allow a 4 to 7 day interval between treatments.</p> <p>Use a minimum of 100 L water for ground application. Use sufficient water for thorough coverage.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT use more than 3 applications per year if using the 83 mL per hectare rate.</p> <p>Aerial Application: DO NOT make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p>

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

VEGETABLE CROPS	
CROPS	TOMATOES
PEST	Colorado Potato Beetle: susceptibility to pyrethroid insecticides should be confirmed using an appropriate assay.
RATE (mL/ha)	83 - 125
APPLICATION METHOD	Ground application
APPLICATION TIMING	When insects or damage appear. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. 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.
NOTES	Allow a 7 day interval between treatments. The maximum rate per season must not exceed 250 mL of product per hectare. 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 applications per year if using the 125 mL per hectare rate. DO NOT APPLY BY AIR.
TOBACCO	
CROPS	TOBACCO Seedlings, Greenhouse
PEST	Cutworm (Darksided and White)
RATE (mL/ha)	2 mL/30 L water
APPLICATION METHOD	Ground application
APPLICATION TIMING	Cutworm activity is greatest during the late evening and night. Application of MATADOR 120EC should be timed as close as possible to insect feeding activity.
NOTES	Mix 2 mL of MATADOR 120EC in 30 L of water and apply to 200 m ² of plant bed. DO NOT APPLY BY AIR.
CROPS	FIELD TOBACCO
PEST	Cutworm (Darksided and White)
RATE (mL/ha)	2 mL/30 L water
APPLICATION METHOD	Ground application
APPLICATION TIMING	Cutworm activity is greatest during the late evening and night. Application of MATADOR 120EC should be timed as close as possible to insect feeding activity.
NOTES	Apply the recommended rate of MATADOR 120EC in 225 to 450 L of water per hectare using spray pressure of 175 to 350 kPa. DO NOT APPLY BY AIR.

CROPS	COVER CROP TREATMENT
PEST	Cutworm (Darksided and White)
RATE (mL/ha)	42
APPLICATION METHOD	Ground application
APPLICATION TIMING	When crop is 10 to 15 cm high, 4-5 days before ploughdown.
NOTES	Apply 42 mL of MATADOR 120EC 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 APPLY BY AIR.
CROPS	SOIL TREATMENT
RATE (mL/ha)	83
PEST	Cutworm (Darksided and White)
APPLICATION METHOD	Ground application
APPLICATION TIMING	Apply once to the soil 5 days before transplanting.
NOTES	DO NOT incorporate. DO NOT disturb the soil surface for at least 5 days following treatment since mixing of MATADOR 120EC 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.
CROPS	POST PLANTING TREATMENT
RATE (mL/ha)	83
PEST	Cutworm (Darksided and White)
APPLICATION METHOD	Ground application
APPLICATION TIMING	At transplanting.
NOTES	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 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	
CROPS	CANOLA AND MUSTARD
PEST	Crucifer Flea Beetle, Lygus Bug, Cabbage Seedpod Weevil (adults)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>For Cabbage 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. MATADOR 120EC will not control larvae developing within the pod, and must be applied prior to egg laying.</p> <p>To prevent migration of overwintering flea beetle adults throughout the field, ground spray a 15 m strip around the field at the first sign of flea beetle feeding.</p>
NOTES	<p>Allow a 7 day interval between treatments.</p> <p>For cabbage seedpod weevil: make only 1 application per season by either ground or aerial application equipment.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT use more than 3 applications per year.</p> <p>Aerial Application: DO NOT make more than 1 application of 83 mL/ha of the allowed seasonal total by air.</p>
CROPS	CANOLA AND MUSTARD
PEST	Imported Cabbageworm, Diamondback Moth Larvae, Cabbage Looper, Bertha Armyworm
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Apply when the insects are at a vulnerable stage (early larval instars). Consult provincial guidelines and local extension experts for treatment threshold and advice.
NOTES	<p>Allow a 7 day interval between treatments (by ground application).</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT use more than 3 applications per year.</p> <p>Aerial Application: DO NOT make more than 1 application of 83 mL/ha of the allowed seasonal total by air.</p>

OILSEED CROPS	
CROPS	CANOLA, MUSTARD AND FLAX
PEST	Grasshoppers
RATE (mL/ha)	63 - 83 for ground application 83 for aerial application
APPLICATION METHOD	Ground or aerial application (see rates above)
APPLICATION TIMING	Apply the low rate when grasshoppers are up to the 3 rd 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.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. Aerial Application: DO NOT make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
CROPS	SUNFLOWERS
PEST	Sunflower beetle
RATE (mL/ha)	42 - 63 by ground application 83 by aerial application
APPLICATION METHOD	Ground or aerial application (see rates above)
APPLICATION TIMING	Apply when insects appear. Use the higher rate to control adults.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 7 days of harvest. DO NOT use more than 3 applications per year. Aerial Application: DO NOT make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
CEREAL CROPS	
CROPS	WHEAT, BARLEY, OATS
PEST	Grasshoppers
RATE (mL/ha)	63 - 83 for ground application 83 for aerial application
APPLICATION METHOD	Ground or aerial application (see rates above)
APPLICATION TIMING	Apply the low rate when grasshoppers are up to the 3 rd 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.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 28 days of harvest or 14 days of livestock foraging. DO NOT use more than 3 applications per year. Aerial Application: DO NOT make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.

Tank-Mix with HORIZON[®] 240EC Herbicide: MATADOR 120EC can be tank-mixed with HORIZON 240EC Herbicide for one pass grasshopper and weed control in spring and durum wheat, if monitoring of grasshopper populations indicates application is necessary and timing is correct. Consult HORIZON 240EC Herbicide label for rates and weeds controlled.

DO NOT APPLY BY AIR.

Tank mix with ACHIEVE[®] Liquid Herbicide, ACHIEVE 40SC Herbicide, and Liquid ACHIEVE SC Herbicide: MATADOR 120EC can be tank mixed with ACHIEVE Liquid Herbicide, ACHIEVE 40SC Herbicide or Liquid ACHIEVE SC 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 MATADOR 120EC is tank mixed with ACHIEVE Liquid Herbicide, ACHIEVE 40SC Herbicide or Liquid ACHIEVE SC Herbicide. Consult ACHIEVE Liquid Herbicide, ACHIEVE 40SC Herbicide or Liquid ACHIEVE SC Herbicide labels for use instructions and rates. For ground application only.

DO NOT APPLY BY AIR.

Tank-Mix with QUILT[®] Fungicide for use on Wheat, Barley, Oats, and Corn (Field, Sweet and Seed)

MATADOR 120EC can be tank-mixed with QUILT Fungicide for labeled foliar disease and insect control on wheat, barley, oats and corn (field, sweet and seed). Refer to the MATADOR 120EC and QUILT Fungicide labels for diseases and insects controlled as well as specific application instructions and precautions. Pests and crops must be at the correct stage as specified on the MATADOR 120EC and QUILT Fungicide labels.

Apply in at least 100 L of water per hectare for ground application and 45 L of water per hectare for aerial application.

CORN: Do not make more than two applications of this tank-mix per season. Allow 14 days between treatments.

Do not apply to field corn and field corn grown for seed after brown silk. Do not apply within 30 days of harvest for forage. Do not apply to sweet corn within 14 days of harvest.

This tank-mix is not registered for use on popcorn.

ALL OTHER CEREAL CROPS: Do not make more than one application of this tank-mix per season.

Do not apply within 45 days of harvest for grain or straw. Do not harvest wheat for forage. Do not graze or feed livestock treated forage or cut green crop for hay or silage.

OTHER USES	
CROPS	ALFALFA/GRASS MIXTURES, UNIMPROVED PASTURE, SUMMERFALLOW
PEST	Grasshoppers
RATE (mL/ha)	63 - 83 for ground application 83 for aerial application
APPLICATION METHOD	Ground or aerial application (see rates above)
APPLICATION TIMING	Apply the low rate when grasshoppers are up to the 3 rd 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.
NOTES	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 apply within 3 days of livestock foraging. DO NOT use more than 3 applications per year. Aerial Application: DO NOT make more than 1 application of 83 mL/ha of the allowed seasonal total by air.
CROPS	ALFALFA
PEST	Alfalfa Weevil, Lygus Bug, Tarnished Plant Bug, Pea Aphid, Potato Leafhopper
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

ALFALFA Rate Conversion Chart:

Rate (mL/ha)	Hectares Treated with 1 L Products
63	15.9
83	12.0

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

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

DIRECTIONS FOR USE**BULB VEGETABLES**

CROPS	Garlic, great-headed (elephant) garlic, leek, dry bulb onion, green onion, Welch onion and Shallot
PEST	Onion Thrips, Leek Moth (<i>Acrolepiopsis assectella</i>)
RATE (mL/ha)	188 Apply in sufficient water to ensure thorough coverage. A water volume of 500 L/ha of water is recommended
APPLICATION METHOD	Apply by foliar broadcast spray. Ground application only.
APPLICATION TIMING	Timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult provincial guidelines and local extension experts for treatment threshold for different crops. Thrips: apply when the insect or damage appears. Thorough coverage and penetration of spray droplets into the leaf whorls, where most thrips are feeding and hiding, are essential for good control.
NOTES	Allow 7 days between applications. DO NOT apply more than 3 applications per year. DO NOT apply within 14 days of harvest. DO NOT APPLY BY AIR. For hand harvest and thinning green onions, DO NOT re-enter treated areas for 10 days after treatment. For all other activities DO NOT re-enter treated areas until 24 hours after treatment. For all other crops DO NOT re-enter treated areas until 24 hours after treatment. Workers shall be given oral warning of the re-entry interval.

LETTUCE

CROPS	Head Lettuce
PEST	Cabbage Looper, Tarnished Plant Bug, Dark-sided and White Cutworms
RATE (mL/ha)	83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 3 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR. Use 500 L/ha of water for thorough coverage.

LETTUCE	
CROPS	Leaf Lettuce
PEST	Tarnished Plant Bug
RATE (mL/ha)	83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow a 7 day interval between treatments. DO NOT apply within 3 days of harvest. DO NOT use more than 3 applications per year. DO NOT APPLY BY AIR. Use 500 L/ha of water for thorough coverage.
CHOKO CHERRIES	
CROPS	Choke Cherry shelterbelts
PEST	Prairie Tent Caterpillar, Ugly Nest Caterpillar, Fruit Tree Leafroller
RATE (mL/ha)	58
APPLICATION METHOD	Ground application only
APPLICATION TIMING	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.
NOTES	Apply as a foliar spray so leaves are wet but not dripping. DO NOT use more than 1 application per year. DO NOT APPLY BY AIR. Use 1000 L/ha of water for thorough coverage.
BRASSICA LEAFY VEGETABLES	
CROPS	Broccoli, Brussels Sprouts, Cabbage, Cauliflower
PEST	Swede midge (<i>Contarinia nasturtii</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	Allow at least 7 day interval between treatments. 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). Use sufficient water for thorough coverage, 100 to 200 L/ha by ground sprayer.

LEGUME VEGETABLES	
CROPS	Crop Group 6 - Legume Vegetables including Soybean
PEST	Soybean aphid, Pea aphid, Bean aphid
RATE (mL/ha)	83 - 233
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p> <p>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.</p> <p>Consult local agricultural personnel and provincial guidelines on the use of this product.</p>
NOTES	<p>Allow at least 7 day interval between treatments.</p> <p>DO NOT apply within 21 days of harvest for soybean, dry peas and dry beans (including lentils, lupins, chickpeas and dry fava beans).</p> <p>DO NOT apply within 14 days of harvest for edible podded peas, succulent shelled beans (including succulent fava beans) and succulent shelled peas.</p> <p>DO NOT apply within 7 days of harvest for edible podded beans</p> <p>DO NOT use more than 3 applications per season.</p> <p>Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT graze or harvest treated forage, straw or hay for livestock feed.</p> <p>Water Volume:</p> <p><u>For ground application:</u> 100 to 200 L/ha.</p> <p><u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.</p>

LEGUME VEGETABLES	
CROPS	Crop Group 6: Legume Vegetables including Soybean
PEST	Western bean cutworm
RATE (mL/ha)	83 - 187
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p> <p>Consult local agricultural personnel and provincial guidelines on the use of this product.</p> <p>Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity.</p>
NOTES	<p>Repeat sprays at 4-7 day intervals.</p> <p>DO NOT apply within 21 days of harvest for soybean, dry peas and dry beans (including lentils, lupins, chickpeas and dry fava beans).</p> <p>DO NOT apply within 14 days of harvest for edible podded peas, succulent shelled beans (including succulent fava beans) and succulent shelled peas.</p> <p>DO NOT apply within 7 days of harvest for edible podded beans</p> <p>DO NOT use more than 3 applications per season.</p> <p>Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT graze or harvest treated forage, straw or hay for livestock feed.</p> <p>Water Volume:</p> <p><u>For ground application:</u> 100 to 200 L/ha.</p> <p><u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.</p>

LEGUME VEGETABLES	
CROPS	Soybeans, Succulent and Dry Edible Beans*, Succulent and Dry Peas**, Chickpeas, Lentils
PEST	Cutworms
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p> <p>Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity.</p> <p>Consult local agricultural personnel and provincial guidelines on the use of this product.</p>
NOTES	<p>Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>DO NOT apply within 21 days of harvest for soybean, dry peas and dry beans (including lentils, lupins and chickpeas).</p> <p>DO NOT apply within 14 days of harvest for edible podded peas, succulent shelled beans and succulent shelled peas.</p> <p>DO NOT apply within 7 days of harvest for edible podded beans</p> <p>DO NOT use more than 3 applications per season.</p> <p>Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT graze or harvest treated forage, straw or hay for livestock feed.</p> <p>Water Volume:</p> <p><u>For ground application:</u> 100 to 200 L/ha.</p> <p><u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.</p>

LEGUME VEGETABLES	
CROPS	Soybeans, Succulent and Dry Edible Beans*, Fava Beans, Lentils
PEST	Lygus bugs
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult local agricultural personnel and provincial guidelines on the use of this product.
NOTES	Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 21 days of harvest for soybean and dry beans (including lentils and dry fava beans). DO NOT apply within 14 days of harvest for succulent shelled beans (including succulent fava beans) DO NOT apply within 7 days of harvest for edible podded beans DO NOT use more than 3 applications per season. Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Water Volume: <u>For ground application:</u> 100 to 200 L/ha. <u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.
CROPS	Soybeans, Dry Peas**, Chickpeas and Lentils
PEST	Grasshoppers
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult local agricultural personnel and provincial guidelines on the use of this product.
NOTES	Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 21 days of harvest for soybean, dry peas, chickpeas and lentils. DO NOT use more than 3 applications per season. Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Water Volume: <u>For ground application:</u> 100 to 200 L/ha. <u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.

LEGUME VEGETABLES	
CROPS	Soybean, Succulent and Dry Edible Beans*, Succulent and Dry Peas**, Fava Beans (broad beans) and Chickpeas
PEST	Bean Leaf Beetle
RATE (mL/ha)	83 - 233 for ground application 83 for aerial application
APPLICATION METHOD	Ground or aerial application (see rates above)
APPLICATION TIMING	<p>For bean leaf beetle, use the higher rate to target higher pest populations or when conditions are conducive to bean pod mottle virus. Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p> <p>Consult local agricultural personnel and provincial guidelines on the use of this product.</p>
NOTES	<p>DO NOT apply within 21 days of harvest for soybean, dry peas and dry beans (including chickpeas and dry fava beans).</p> <p>DO NOT apply within 14 days of harvest for edible podded peas, succulent shelled beans (including succulent fava beans) and succulent shelled peas.</p> <p>DO NOT apply within 7 days of harvest days for edible podded beans</p> <p>DO NOT use more than 3 applications per season.</p> <p>Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT graze or harvest treated forage, straw or hay for livestock feed.</p> <p>Water Volume:</p> <p><u>For ground application:</u> 100 to 200 L/ha.</p> <p><u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.</p>

LEGUME VEGETABLES	
CROPS	Succulent and Dry Edible Beans*, Succulent Peas**, Fava Beans (broad beans), Chickpeas and Lentils
PEST	Potato Leafhopper
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult local agricultural personnel and provincial guidelines on the use of this product.
NOTES	Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 21 days of harvest for soybean, dry peas, chickpeas and lentils and dry fava beans). DO NOT apply within 14 days of harvest for edible podded peas, succulent shelled beans (including succulent fava beans) and succulent shelled peas. DO NOT apply within 7 days of harvest for edible podded beans DO NOT use more than 3 applications per season. Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Water Volume: <u>For ground application:</u> 100 to 200 L/ha. <u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.
CROPS	Succulent and Dry Edible Beans*
PEST	Corn Borer
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Apply before the larva bores into the plant stalk or pods. The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult local agricultural personnel and provincial guidelines on the use of this product.
NOTES	Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring. DO NOT apply within 21 days of harvest for dry beans. DO NOT apply within 14 days of harvest for succulent shelled beans DO NOT apply within 7 days of harvest for edible podded beans DO NOT use more than 3 applications per season. Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Water Volume: <u>For ground application:</u> 100 to 200 L/ha. <u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.

LEGUME VEGETABLES

CROPS	Field Peas
PEST	Pea leaf weevil (<i>Sitona lineata</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	<p>Make the first application after emergence but prior to the 5 to 6 node stage. Apply while the adults are still present on the plants, before egg laying begins.</p> <p>The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p> <p>Consult local agricultural personnel and provincial guidelines on the use of this product.</p>
NOTES	<p>Repeat sprays at 4 to 7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>DO NOT apply within 21 days of harvest for dry peas</p> <p>DO NOT use more than 3 applications per season.</p> <p>Aerial application: Do not make more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT graze or harvest treated forage, straw or hay for livestock feed.</p> <p>Water Volume:</p> <p><u>For ground application:</u> 100 to 200 L/ha.</p> <p><u>For aerial application:</u> apply in minimum spray volume of 20 L/ha.</p>

* **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.

** **Peas, succulent:** Pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea, English pea, garden pea, green pea), pigeon pea. **Peas, dry:** Peas (*Pisum* spp.) (includes field pea), pigeon pea.

LEGUMES VEGETABLES (CROP GROUP 6) INCLUDING SOYBEANS**MATADOR 120EC TANK-MIX WITH TILT 250E FUNGICIDE**

MATADOR 120EC can be tank-mixed with TILT 250E Fungicide for insect and foliar disease control. Apply MATADOR 120EC at a rate of 83-233 mL/ha for control of soybean aphid on soybean and at a rate of 83mL/ha for the rest of the crops in Crop Group 6 in a tank-mix with TILT 250E Fungicide at a rate of 250-756mL/ha. Refer to both the MATADOR 120EC and TILT 250E Fungicide labels for insects and diseases controlled, specific application instructions and precautions. Pests and crops must be at the correct stage as specified on the MATADOR 120EC as well as TILT 250E Fungicide labels. DO NOT apply more than 2 applications per season of this tank-mix. PHI 30 days for crop subgroup 6C (dry legume vegetables) and soybeans. PHI 15 days for crop subgroup 6A (edible podded legume vegetables) and 6B (succulent shelled legume vegetables). DO NOT graze or harvest treated forage, straw or hay for livestock feed. Not all members of the legume vegetable group have been tested for efficacy and phytotoxicity at the recommended label rates, and should be used at the discretion of the user. This tank-mix can be applied by ground application equipment only. DO NOT APPLY THE TANK-MIX BY AIR.

MATADOR 120EC TANK-MIX WITH QUADRIS FLOWABLE FUNGICIDE

MATADOR 120EC can be tank-mixed with QUADRIS Flowable Fungicide for insect and foliar disease control. Apply MATADOR 120EC at a rate of 83-233 mL/ha for control of soybean aphid on soybean and at a rate of 83mL/ha for the rest of the crops in Crop Group 6 in a tank-mix with QUADRIS Flowable Fungicide at a rate of 500mL/ha. Refer to both the MATADOR 120EC and QUADRIS Flowable Fungicide labels for insects and diseases controlled, specific application instructions and precautions. Pests and crops must be at the correct stage as specified on the MATADOR 120EC as well as QUADRIS Flowable Fungicide label. DO NOT apply more than 2 applications per season of this tank-mix. DO NOT make more than one application to soybean hay and dry pea hay per season of this tank-mix. PHI 30 days for crop subgroup 6C (dry legume vegetables) and soybeans. PHI 15 days for crop subgroup 6A (edible podded legume vegetables) and 6B (succulent shelled legume vegetables). DO NOT apply within 14 days of harvest of soybean hay and dry pea hay. A plantback interval of 30 days for broadleaf and root crops, and of 45 days for cereals is required for this tank-mix. DO NOT feed dried pea vines to livestock. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Not all members of the legume vegetable group have been tested for efficacy and phytotoxicity at the recommended label rates, and should be used at the discretion of the user. This tank-mix can be applied by ground application equipment only. DO NOT APPLY THE TANK-MIX BY AIR.

MATADOR 120EC TANK-MIX WITH QUILT FUNGICIDE

MATADOR 120EC can be tank-mixed with QUILT Fungicide for insect and foliar disease control. Apply MATADOR 120EC at a rate of 83-233 mL/ha for control of soybean aphid on soybean and at a rate of 83mL/ha for the rest of the crops in Crop Group 6 in a tank-mix with QUILT Fungicide at a rate of 1.0 - 1.5 L/ha. Refer to both the MATADOR 120EC and QUILT Fungicide labels for insects and diseases controlled, specific application instructions and precautions. Pests and crops must be at the correct stage as specified on the MATADOR 120EC as well as QUILT Fungicide label. DO NOT apply more than 2 applications per season of this tank-mix. DO NOT make more than one application to soybean hay and dry pea hay of this tank-mix per season. PHI 30 days of harvest for crop subgroup 6C (dry legume vegetables) and soybeans. PHI 15 days for crop subgroup 6A (edible podded legume vegetables) and 6B (succulent shelled legume vegetables). DO NOT apply within 14 days of harvest of soybean hay and dry pea hay of this tank-mix per season. DO NOT graze or harvest treated forage, straw or hay for livestock feed. Not all members of the legume vegetable group have been tested for efficacy and phytotoxicity at the recommended label rates, and should be used at the discretion of the user. This tank-mix can be applied by ground application equipment only. DO NOT APPLY THE TANK-MIX BY AIR.

SUCCULENT BEANS**MATADOR 120EC Tank-mix with LANCE® WDG FUNGICIDE**

MATADOR 120EC can be tank-mixed with LANCE WDG Fungicide for control of corn borer, white mold (*Sclerotinia sclerotiorum*), and gray mold (*Botrytis cinera*). Apply MATADOR 120EC at a rate of 83 mL/ha in a tank-mix with LANCE Fungicide at a rate of 0.42 kg/ha for gray mold, and 0.56-0.77 kg/ha for white mold in a spray volume of 100-200 L. Refer to both the MATADOR 120EC and LANCE Fungicide labels for specific application instructions and precautions. Apply before larva bores into the plant stalk or pods. Follow the most restrictive application directions for each of the tank-mix partner with respect to the maximum number of applications, pre-harvest interval, and other label instructions. DO NOT apply more than 2 applications per season of this tank-mix using an application interval of 7-14 days. Use the high rate and shorter interval of LANCE Fungicide when disease pressure is high. PHI 14 days. This tank-mix can be applied by ground application equipment only. DO NOT APPLY THE TANK-MIX BY AIR.

LETTUCE (Greenhouse only)	
CROPS	Lettuce (greenhouse)
PEST	Cabbage Loopers
RATE (mL/ha)	83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Apply when insects or damage first appear. For best results, apply against early developmental stages of the pest.
NOTES	<p>DO NOT apply within 3 days of harvest.</p> <p>DO NOT use more than 2 applications per year.</p> <p>DO NOT apply by air.</p> <p>Apply in sufficient water to ensure adequate coverage.</p>
FERNS OF ASPARAGUS	
CROPS	Ferns of Asparagus
PEST	European Asparagus Aphids
RATE (mL/ha)	83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Apply post-harvest to fern only. Reapply after 7-10 days if monitoring indicates further applications are required.
NOTES	<p>Allow a 7 to 10 day interval between treatments.</p> <p>DO NOT apply within 180 days of harvest.</p> <p>DO NOT apply more than 3 applications per season.</p> <p>DO NOT apply by air.</p> <p>Apply in 100 to 200 L of water per hectare.</p>
FIELD AND SWEET CORN	
CROPS	Corn, Field and Sweet
PEST	Armyworm (<i>Pseudaletia unipuncta</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Spray no later than when first feeding damage is seen on foliage.
NOTES	<p>Repeat sprays at 4-7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>DO NOT apply more than 3 applications per hectare in total per season.</p> <p>DO NOT apply more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT apply within 1 day of harvest for sweet corn.</p> <p>DO NOT apply within 14 days of harvest of corn for silage.</p> <p>DO NOT apply within 21 days of harvest for field corn, popcorn and corn grown for seed.</p> <p>Water Volume:</p> <p><u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.</p> <p><u>Ground Application:</u> Apply in 100 - 200 L of water per hectare.</p>

FIELD AND SWEET CORN	
CROPS	Corn, Field, Sweet, Pop and Seed
PEST	European corn borer (<i>Ostrinia nubilalis</i>), Corn earworm (<i>Helicoverpa zea</i>)
RATE (mL/ha)	187
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	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 from the late whorl stage until close to harvest. This treatment will not prevent internal cob damage if the insect has penetrated the ear.
NOTES	Repeat sprays at 4-7 day 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 make more than 2 applications of 187 mL/ha by air per season. DO NOT apply within 1 day of harvest for sweet corn. DO NOT apply within 14 days of harvest of corn for silage. DO NOT apply within 21 days of harvest for field corn, popcorn and corn grown for seed. Water Volume: <u>Ground Application:</u> Apply in 100 - 200 L of water per hectare. <u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.
CROPS	Corn
PEST	Western bean cutworm
RATE (mL/ha)	83 -187
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Applications should be based on the presence of vulnerable pest development stages and significant populations as determined by local monitoring
NOTES	Repeat sprays at 4-7 day 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 make more than 2 applications of 83-187 mL/ha by air per season. DO NOT apply within 1 day of harvest for sweet corn. DO NOT apply within 14 days of harvest of corn for silage. DO NOT apply within 21 days of harvest for field corn, popcorn and corn grown for seed. Water Volume: <u>Ground Application:</u> Apply in 100 - 200 L of water per hectare. <u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.

TIMOTHY (grown for hay or seed)	
CROPS	Timothy (grown for hay or seed)
PEST	Grasshoppers
RATE (mL/ha)	63 – 83
APPLICATION METHOD	Ground application only
APPLICATION TIMING	Apply the low rate when grasshoppers are up to the 3 rd 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.
NOTES	Allow 7 days between applications. DO NOT apply more than 3 applications per season. DO NOT apply within 14 days of harvest. DO NOT apply by air. Crops treated with MATADOR 120EC may be fed to non-lactating dairy animals and other livestock following a 3 day interval from application to harvest or foraging. Apply in 100 to 200 L of water per hectare.
SWEET POTATO	
CROPS	Sweet Potato
PEST	Potato Flea Beetle, Tuber Flea Beetle, Potato Leafhopper
RATE (mL/ha)	83 mL/ha Apply in a minimum of 100 L of water/ha
APPLICATION METHOD	Ground only
APPLICATION TIMING	Timing of application should be based on the presence of vulnerable pest development stages and significant population as determined by local monitoring.
NOTES	Allow 7 days between applications. DO NOT apply more than 3 applications per year. DO NOT apply within 7 days of harvest. DO NOT apply by air.

CEREAL CROPS	
CROPS	Wheat, Barley and Oats
PEST	Armyworm (<i>Pseudaletia unipuncta</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Spray no later than when first feeding damage is seen on foliage
NOTES	<p>Repeat sprays at 4-7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>DO NOT apply more than 3 applications per year.</p> <p>DO NOT apply more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>DO NOT apply within 28 days of harvest.</p> <p>DO NOT apply within 14 days of livestock foraging.</p> <p>Water Volume:</p> <p><u>Ground Application:</u> Apply in 100 - 200 L of water per hectare.</p> <p><u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.</p>
POTATOES	
CROPS	Potatoes
PEST	Armyworm (<i>Pseudaletia unipuncta</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Spray no later than when first feeding damage is seen on foliage.
NOTES	<p>Repeat sprays at 4-7 day intervals depending on the presence of significant populations as determined by local monitoring.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT apply more than 3 applications per year for ground.</p> <p>DO NOT apply more than 2 applications of 83 mL/ha of the allowed seasonal total by air.</p> <p>Water Volume:</p> <p><u>Ground Application:</u> Apply in 100 - 200 L of water per hectare.</p> <p><u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.</p>

SUNFLOWERS	
CROPS	Sunflowers
PEST	Lygus bugs (<i>Lygus</i> spp.)
RATE (mL/ha)	83
APPLICATION METHOD	Ground or aerial application
APPLICATION TIMING	Timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.
NOTES	<p>Allow 7 days between applications.</p> <p>DO NOT apply within 7 days of harvest.</p> <p>DO NOT apply more than 1 application per hectare of the seasonal total by air.</p> <p>DO NOT apply more than 3 applications per hectare in total per season.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p> <p>Water Volume:</p> <p><u>Ground Application:</u> Apply in 100 - 200 L of water per hectare.</p> <p><u>Aerial Application:</u> Apply in 10 - 40 L of water per hectare.</p>
CARROTS	
CROPS	Carrot
PEST	Carrot rust fly (<i>Psila rosae</i>), Carrot weevil (<i>Listronotus oregonensis</i>)
RATE (mL/ha)	83
APPLICATION METHOD	Ground application
APPLICATION TIMING	<p>First application should be applied at the 2-3 leaf stage when insects or damage appear.</p> <p>Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.</p>
NOTES	<p>Allow 7 days between applications. DO NOT apply within 14 days of harvest.</p> <p>DO NOT apply more than 3 applications per year.</p> <p>DO NOT apply by air.</p>

Resistance-Management Recommendations

For resistance management, please note that MATADOR 120EC contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to MATADOR 120EC 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 MATADOR 120EC or other Group 3 insecticides with different

groups that control the same pests in a field.

Use tank-mixtures with insecticides from a different group when such use is permitted.

Insecticide use should be based on an 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 Syngenta Crop Protection Canada, Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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