GROUPS 6 28 INSECTICIDE

MINECTO® PRO

INSECTICIDE/MITICIDE

COMMERCIAL

SUSPENSION CONCENTRATE

Broad spectrum insecticide/miticide for control of listed mites and insect pests on listed crops.

ACTIVE INGREDIENTS:

Abamectin	. 28.5 g/L
Cyantraniliprole	

Contains 1,2-benzisothiazolin-3-one at 0.042% and 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives

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

DANGER



POISON

REGISTRATION NO.: 33023 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L - 1000 L

Syngenta Canada Inc.

140 Research Lane, Research Park Guelph, ON N1G 4Z3

Telephone: 1-877-964-3682

Label

1.0 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.

2.0 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF 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 mouth-to-mouth, if possible. Call a poison control centre or doctor for further 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.

3.0 TOXICOLOGICAL INFORMATION

The abamectin component of this material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic mectin exposure. Toxicity can be minimized by early administration of chemical absorbents (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

4.0 PRECAUTIONS

- 1. Hazard to humans and domestic animals.
- 2. KEEP OUT OF THE REACH OF CHILDREN and domestic animals. Keep unused product in original container tightly closed, locked up and away from food.
- 3. Fatal or poisonous if swallowed. Harmful if inhaled. Avoiding breathing spray mist.
- 4. Wash hands and face after handling and before eating or smoking.
- 5. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 6. Avoid contamination of feed and foodstuffs.

- 7. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- 8. **DO NOT** apply in greenhouses.
- 9. **DO NOT** apply by air.
- 10. Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees. Bees may be exposed through direct spray, spray drift, and residues on/in leaves, pollen and nectar in flowering crops and weeds. Cyantraniliprole is systemic and bees can be exposed to product residues in flower, leaves, pollen and/or nectar resulting from soil applications. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website (www.canada.ca/pollinators). Follow crop specific directions for application timing.

For applications on crops that are highly attractive to pollinators (apple and pear) or when using managed bees for pollination services: Do not apply during the crop blooming period (onset of flowering until after petal fall is complete).

For applications on cucurbit vegetables, fruiting vegetables, potato and sweet potato: Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

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.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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

Avoid application of this product when heavy rain is forecast.

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

7.0 STORAGE

Store in original container in a cool, dry, and secure place. Keep container closed when not in use. Store this product away from food or feed. Heated storage is not required.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, or in the case of a spill or spill clean-up, contact the manufacturer or provincial regulatory agency.

For Recyclable Containers

DO NOT reuse this container for any other 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 rinsate 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.

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IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING, CALL 1-800-327-8633 (FASTMED)

MINECTO® is a trademark of a Syngenta Group Company.

GROUPS 6 28 INSECTICIDE

MINECTO® PRO

INSECTICIDE/MITICIDE

COMMERCIAL

SUSPENSION CONCENTRATE

Broad spectrum insecticide/miticide for control of listed mites and insect pests on listed crops.

ACTIVE INGREDIENTS:

Abamectin	.28.5 g/	L
Cyantraniliprole	. 135 g/	L

Contains 1,2-benzisothiazolin-3-one at 0.042% and 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives

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PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.

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Booklet

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For applications on cucurbit vegetables, fruiting vegetables, potato and sweet potato: Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

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.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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

Avoid application of this product when heavy rain is forecast.

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

7.0 STORAGE

Store in original container in a cool, dry, and secure place. Keep container closed when not in use. Store this product away from food or feed. Heated storage is not required.

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9.0 PRODUCT INFORMATION

MINECTO® PRO is a suspension concentrate for control of labeled mites and insects in labeled crops.

Thorough coverage and use of a proper adjuvant is essential for good mite and insect control. Consult the crop specific Directions for Use in the table below for adjuvant recommendations for that crop. In all cases, use either the adjuvant rate as specified on the adjuvant label, or the values given in the Directions for Use in the tables below, whichever is more restrictive.

Proper adjuvant use is required on all crops to avoid illegal crop residues. Follow the crop specific directions for use to achieve thorough coverage and avoid illegal crop residues.

Adjuvant Phytotoxicity Precaution: Since MINECTO PRO must always be mixed with a spray adjuvant as instructed in the Directions for Use in the tables below, and spray adjuvants alone are known to cause phytotoxicity to certain crops under certain environmental conditions, do not use MINECTO PRO on a spray-adjuvant sensitive crop unless the spray adjuvant supplier can confirm a known non-phytotoxic labeled use rate for the intended spray adjuvant on the target crop.

10.0 DIRECTIONS FOR USE

10.1 General Information

Do not make a foliar application of MINECTO PRO for a minimum of 60 days following an infurrow or soil application or planting of seed or seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.

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

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

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA

/ 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

DO NOT apply by air.

10.2 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 spray droplets which are smaller than the American Society of Agricultural and Biological Engineers fine classification (ASABE Standard S-572.1). Boom height must be 60 cm or less above the crop or ground.

10.2.1 Mixing Instructions

- 1. Ensure that the sprayer interior is clean, then fill the spray tank with ½ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
- 2. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
- 3. Add MINECTO PRO and agitate to ensure complete mixing.
- 4. Add any SE or SC formulation mix partners and agitate to ensure complete mixing.
- 5. Add any EC formulation mix partners and agitate to ensure complete mixing.
- 6. Fill the tank to 3/4 the required amount of water.
- 7. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
- 8. Finish filling the sprayer with water, maintaining good agitation.
- 9. After any break in spraying operations, agitate thoroughly before spraying again.
- 10. Spray the pesticide suspension the same day as mixing.
- 11. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

10.2.2 Spraying Instructions

- 1. Water Volume: Apply in a minimum spray volume of 200 L/ha.
- 2. <u>Sprayer Agitation:</u> Use a jet agitator or liquid sparge tub which recirculates 10% or more of the tank per minute. **DO NOT** use an air sparger.

- 3. <u>Pump:</u> Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom.
- 4. <u>Spray Nozzles:</u> 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Use 50 mesh nozzle screens. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
- 5. <u>Pressure:</u> As recommended by the nozzle manufacturer to achieve ASABE fine sized droplets.
- 6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

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.

10.2.3 Sprayer Clean-Up

Before Spraying:

• Prior to using MINECTO PRO, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. DO NOT allow MINECTO PRO residue to dry within the spray tank
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 - 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
 - 2. Remove all nozzles and screens and wash separately.
 - 3. Dispose of all rinsate in accordance with provincial regulations.

10.3 Airblast Application

<u>Airblast application</u>: **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 and Biological Engineers fine classification (ASABE Standard S-572.1). **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.

10.3.1 Spraying Instructions

- 1. <u>Water Volume:</u> Apply in a minimum spray volume of 450 L/ha. Water volume should exceed the minimum recommendation when number of trees per hectare and/or density of foliage are increased so that thorough coverage is achieved.
- 2. Spray Quality: Select nozzles and pressure to achieve ASABE fine sized droplets.
- 3. <u>Spray Distribution:</u> Select nozzles, orient deflectors, and adjust air speed and volume to ensure only the canopy is sprayed. Spray should just reach the top of the target. Account for the shape and canopy density of the target when setting spray distribution.
- 4. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly 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.

10.4 Buffer Zones

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

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

			Buffer	Zones (metre	s) Required	for the Pro	tection of:
Method of	Crop		Freshwater Habitat of Crop Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial
application			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	Habitat:
Field	Celeriac, Fruiting Vegetables (CG 8-09), Bulb vegetables (CG 3- 07), Leaf Petioles vegetables (Crop Subgroup 22B)		10	5	120	60	1
sprayer	Potatoes, Tuberous and Corm Vegetables (Crop Subgroup 1C), Leafy Greens (Crop Subgroup 4-13A), Cucurbit Vegetables (CG 9)		10	5	110	55	1
	Annles	Early season	25	20	60	50	0
Airblast	Apples	Late season	20	10	50	40	0
VIIDIOSI	Dears	Early season	35	25	65	55	1
Pears		Late season	25	15	55	45	1

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site. Buffer zones of 120 m (field sprayer) CANNOT be modified.

When tank mixes are permitted, 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.

11.0 CROPS USE DIRECTIONS

11.1 Potato

Potato
European corn borer
370 – 556 mL/ha
0.1-0.5% v/v non-ionic surfactant (NIS)
Begin applications when treatment thresholds have been reached.
For European corn borer control, time the application to coincide with
peak egg hatch. Scout for European corn borer by monitoring egg laying
and egg hatch to determine application timing.
Thorough coverage is important to obtain optimum control.
Spider mites, potato psyllids, and flea beetle
370 – 670 mL/ha
0.1-0.5% v/v non-ionic surfactant (NIS)
Begin applications when treatment thresholds have been reached.
For control of spider mites, make the first application when mites first
appear. Repeat application as needed to maintain control.
Thorough coverage is important to obtain optimum control.
Colorado potato beetle
556 – 670 mL/ha
0.1-0.5% v/v non-ionic surfactant (NIS)
Begin applications when treatment thresholds have been reached.
begin applications when treatment thresholds have been reached.
For control of Colorado potato beetle, make the first application after
approximately 50% of the egg masses have hatched and larvae are
present. If two applications are needed, limit them to a single Colorado
potato beetle generation per crop.
Thorough coverage is important to obtain optimum control.
Do not apply MINECTO PRO for Colorado potato beetle control if
any Group 28 was used at planting as an in-furrow, soil or seed-
piece treatment.

MINIMUM SPRAY VOLUME	200 L/ha	
MAXIMUM NUMBER OF	2 at upper range rate; or	
APPLICATIONS PER	3 at lower range rate	
SEASON		
MAXIMUM NUMBER OF	Make up to 2 consecutive applications then switch to a non-Group 6 and	
CONSECUTIVE SPRAYS	non-Group 28 insecticide. Follow all precautions, restrictions and	
	directions on the labels of insecticide products used in an alternation	
	program.	
MAXIMUM AMOUNT OF	1.340 L/ha	
PRODUCT PER SEASON		
APPLICATION INTERVAL	7 days	
RE-ENTRY INTERVAL (REI)	12 hours after application	
PRE-HARVEST INTERVAL	Do not apply within 14 days of harvest	
(PHI)		
SPECIFIC RESTRICTIONS	For European corn borer, spider mites, potato psyllids and flea beetle, do not make a foliar application of MINECTO PRO for a minimum of 60 days following an in-furrow or soil application or planting of seed or seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.	
	<u>Pollinator Precautions</u> : This product is toxic to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period (onset of flowering until after petal fall is complete).	

11.2 Tuberous and Corm Vegetables – Crop Subgroup 1C

TUBEROUS AND CORM VEGETABLES		
CROP SUBGROUP Tuberous and Corm Vegetables (Crop subgroup 1C)		
	Crops (including all cultivars, varieties and/or hybrids of these)	
arracacha chufa		
arrowroot dasheen (taro)potato		
artichoke, Chinese sweet potato		
artichoke, Jerusalem yam, true		
canna, edible		
PESTS CONTROLLED Cabbage looper, armyworm, beet armyworm, fall armyworm		
RATE 370 mL/ha		
0.1-0.5% v/v non-ionic surfactant (NIS)		
APPLICATION TIMING AND Begin applications when treatment thresholds have been reached.		
INSTRUCTIONS		
Thorough coverage is important to obtain optimum control.		
PESTS CONTROLLED Variegated cutworm and European corn borer		
RATE 370 – 556 mL/ha		
	0.1-0.5% v/v non-ionic surfactant (NIS)	
	Begin applications when treatment thresholds have been reached.	
INSTRUCTIONS	.:41	
For European corn borer control, time the application to coincide w	เเท	
peak egg hatch. Scout for European corn borer by monitoring egg		
laying and egg hatch to determine application timing.		
Thorough coverage is important to obtain optimum control.		
PESTS CONTROLLED Spider mites and flea beetle		
RATE 370 – 670 mL/ha		
0.1-0.5% v/v non-ionic surfactant (NIS)		
APPLICATION TIMING AND Begin applications when treatment thresholds have been reached.		
INSTRUCTIONS		
Thorough coverage is important to obtain optimum control.		
PESTS CONTROLLED Corn earworm and suppression of tobacco hornworm and tom	ato	
hornworm	ialo	
RATE 556 mL/ha		
0.1-0.5% v/v non-ionic surfactant (NIS)		
5 5.5.5 .,		
APPLICATION TIMING AND Begin applications when treatment thresholds have been reached		
APPLICATION TIMING AND Begin applications when treatment thresholds have been reached. INSTRUCTIONS		

MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	2 at upper range rate; or 3 at lower range rate
MAXIMUM NUMBER OF CONSECUTIVE SPRAYS	Make up to 2 consecutive applications then switch to a non-Group 6 and non-Group 28 insecticide. Follow all precautions, restrictions and directions on the labels of insecticide products used in an alternation program.
MAXIMUM AMOUNT OF PRODUCT PER SEASON	1.340 L/ha
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL (PHI)	Do not apply within 14 days of harvest
SPECIFIC RESTRICTIONS	Do not apply MINECTO PRO unless mites and another labelled insect are present at the same time.
	Do not make a foliar application of MINECTO PRO for a minimum of 60 days following an in-furrow or soil application or planting of seed or seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.
	<u>Pollinator Precautions for Potato and Sweet Potato</u> : This product is toxic to bees Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period (onset of flowering until after petal fall is complete).

11.3 Celeriac

CELERIAC	
CROP	Celeriac
PESTS CONTROLLED	Two-spotted spider mite and flea beetle
RATE	741 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Do not apply MINECTO PRO unless both mites and flea beetles are
INSTRUCTIONS	present at the same time. Begin applications when treatment thresholds have been reached.
	nave been reached.
	Apply when mites first appear and repeat as necessary to maintain control.
	Typiy whom thice hist appear and repeat as necessary to maintain control.
	Thorough coverage is important to obtain optimum control.
MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF	2
APPLICATIONS PER	
SEASON	
MAXIMUM NUMBER OF	Make up to 2 consecutive applications then switch to a non-Group 6 and
CONSECUTIVE SPRAYS	non-Group 28 insecticide. Follow all precautions, restrictions and directions on the labels of insecticide products used in an alternation
	program.
MAXIMUM AMOUNT OF	1.482 L/ha
PRODUCT PER SEASON	
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL	Do not apply within 7 days of harvest
(PHI)	
SPECIFIC RESTRICTIONS	Do not make a foliar application of MINECTO PRO for a minimum of 60
	days following an in-furrow or soil application or planting of seed or seed
	pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.
	the Directions for USE lable.

11.4 Bulb Vegetables - Crop Group 3-07

· · · · · · · · · · · · · · · · · · ·	– Crop Group 3-07			
BULB VEGETABLES				
CROP SUBGROUP		Bulb Vegetables (Crop group 3-07)		
	Crops (including all cultivars, var			
	garlic, bulb	daylily, bulb		
	garlic, great-headed, bulb	elegans, hosta		
	leek	fritillaria		
	onion, bulb	garlic, serpent, bulb		
	onion, green	kurrat		
	onion, Welsh, tops	lady's leek		
	shallot, bulb and fresh leaves	lily		
	onion, potato, bulb	onion, Beltsville bunching onion, fresh		
	onion, Chinese, bulb	•		
	onion, tree, tops chive, fresh leaves	onion, macrostem onion, pearl		
	chive, Tresmeaves chive, Chinese, fresh leaves	wild leek		
DESTS CONTROLLED		WIIG ICCK		
PESTS CONTROLLED RATE	Thrips and Liriomyza leafminer 778 mL/ha			
RATE	776 IIIL/IIa Apply a methylated seed oil (MSO) s	surfactant at an application rate of		
	0.25% v/v.	surfactant at an application rate of		
APPLICATION TIMING AND	Thorough coverage is essential for o	ontimum control		
INSTRUCTIONS	Thorough boverage to obsertial for t	primam comion.		
mo mo mo mo mo	Apply in a thrips management progr	am and when thrips are at		
	economic threshold. Do not use MIN			
	treatment for thrips control.	120101110 40 4100040		
	Apply when adult leafminer flies are first observed.			
	Repeat application, if required, to maintain control within constraints of			
	a sound resistance management pro	ogram.		
MINIMUM SPRAY VOLUME	200 L/ha			
MAXIMUM NUMBER OF	3			
APPLICATIONS PER				
SEASON				
MAXIMUM NUMBER OF	Make up to 2 consecutive applicatio			
CONSECUTIVE SPRAYS	and non-Group 28 insecticide. Follo			
	directions on the labels of insecticide	e products used in an alternation		
	program.			
MAXIMUM AMOUNT OF	2.334 L/ha			
PRODUCT PER SEASON				
APPLICATION INTERVAL	7 days			
RE-ENTRY INTERVAL (REI)	12 hours after application			
PRE-HARVEST INTERVAL	Do not apply within 30 days of harve	est		
(PHI)				
SPECIFIC RESTRICTIONS	Do not make a foliar application of N			
	60 days following an in-furrow or soi			
	seed pieces treated with any Group			
	directed in the Directions for Use tab	ole.		

11.5 Leafy Greens – Crop Subgroup 4-13A

LEAFY GREENS	Top Subgroup 4-13A		
CROP SUBGROUP	Leafy Greens (Crop subgroup 4-13A) Crops (including all cultivars, varieties and/or hybrids of these)		
	amaranth, Chinese	feather cockscomb	
	amaranth, leafy	good King Henry	
	aster, Indian	huauzontle	
	blackjack	jute leaves	
	cat's whiskers	lettuce, bitter	
	cham-chwi	lettuce, head	
	cham-na-mul	lettuce, leaf (Romaine)	
	chervil, fresh leaves	orach	
	chipilin	parsley, fresh leaves	
	chrysanthemum, garland	plantain, buckhorn	
	cilantro, fresh leaves	primrose, English	
	corn salad	purslane, garden	
	cosmos	purslane, winter	
	dandelion	radicchio (red chicory)	
	dang-gwi	spinach	
	dillweed, fresh leaves	spinach, Malabar	
	dock	spinach, New Zealand	
	dol-nam-mul	spinach, tree	
	ebolo	swiss chard	
	endive	tanier spinach	
	escarole	violet, Chinese	
	fameflower	, -	
PESTS CONTROLLED	Cabbage looper, armyworm, beet armyworm and fall armyworm		
RATE	370 mL/ha		
	0.1-0.5% v/v non-ionic surfactant (NIS)		
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment		
INSTRUCTIONS	Thorough coverage is important to	obtain optimum control.	
PESTS CONTROLLED	Cutworm		
RATE	370 – 556 mL/ha		
	0.1-0.5% v/v non-ionic surfactant (NIS)		
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.		
INSTRUCTIONS			
	For early season cutworm control, apply to foliage when rain is no		
	expected in the next 24 hours. For optimal control, apply to smaller		
	plants or when lower portions of the plant can receive adequate		
	coverage.		
	Thorough coverage is important to	obtain optimum control.	

PESTS CONTROLLED	Carmine spider mite, and two-spotted spider mite
RATE	385 – 670 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Apply when mites first appear and repeat as needed to maintain
INSTRUCTIONS	control.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Corn earworm
RATE	556 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.
INSTRUCTIONS	
	Thorough coverage is important to obtain optimum control.
MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF	3 at upper range rate; or
APPLICATIONS PER	5 at lower range rate
SEASON	
MAXIMUM NUMBER OF	Make up to 2 consecutive applications then switch to a non-Group 6
CONSECUTIVE SPRAYS	and non-Group 28 insecticide. Follow all precautions, restrictions and
	directions on the labels of insecticide products used in an alternation
	program.
MAXIMUM AMOUNT OF	2.010 L/ha
PRODUCT PER SEASON	
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL	Do not apply within 7 days of harvest
(PHI)	D I. MINIEOTO DDO. I
SPECIFIC RESTRICTIONS	Do not apply MINECTO PRO unless mites and another labelled insect
	are present at the same time.
	Do not make a foliar application of MINECTA DRA for a minimum of
	Do not make a foliar application of MINECTO PRO for a minimum of 60 days following an in-furrow or soil application or planting of seed or
	seed pieces treated with any Group 28 insecticide unless otherwise
	directed in the Directions for Use table.
	directed in the directions for use table.

11.6 Fruiting Vegetables – Crop Group 8-09

11.6 Fruiting vegetab	ies – Grop Group 0-03	
FRUITING VEGETABLES		
CROP GROUP	Fruiting Vegetables (Crop group 8-	
	Crops (including all cultivars, varie	eties and/or hybrids of these)
	African eggplant	pea eggplant
	currant tomato	pepino
	eggplant	pepper, bell
	garden huckleberry	pepper, non-bell
	goji berry	scarlet eggplant
	groundcherry	sunberry
	martynia	tomatillo
	okra	tomato
PESTS CONTROLLED	Cabbage looper, armyworm, beet a	rmyworm and fall armyworm
RATE	370 mL/ha	
	0.1-0.5% v/v non-ionic surfactant (NIS	
APPLICATION TIMING AND	Begin applications when treatment th	resholds have been reached.
INSTRUCTIONS		
	Thorough coverage is important to obtain optimum control.	
PESTS CONTROLLED	Cutworm and European corn bore	,
RATE	370 – 556 mL/ha	
	0.1-0.5% v/v non-ionic surfactant (NIS	
APPLICATION TIMING AND	Begin applications when treatment th	resholds have been reached.
INSTRUCTIONS		
	For early season cutworm control, ap	
	expected in the next 24 hours. For op	
	plants or when lower portions of plan	t can receive adequate coverage.
	For European corn borer control, time	e the application to coincide with
	peak egg hatch. Scout for European	
	laying and egg hatch to determine ap	plication timing.
	Thorough coverage is important to ob	otain optimum control.
PESTS CONTROLLED	Liriomyza leafminers, and flea bee	tle
RATE	385 – 741 mL/ha	
	0.1-0.5% v/v non-ionic surfactant (NIS	5)
APPLICATION TIMING AND	Begin applications when treatment th	resholds have been reached.
INSTRUCTIONS		
	Thorough coverage is important to ob	
PESTS CONTROLLED	Broad mite, spider mites, tomato re	usset mite, tomato psyllid
RATE	385-670 mL/ha	
	0.1-0.5% v/v non-ionic surfactant (NIS	3)
APPLICATION TIMING AND	Apply when mites first appear.	
INSTRUCTIONS		

PESTS CONTROLLED	Tomato fruitworm (corn earworm)
PESTS SUPPRESSED	Tobacco hornworm and tomato homworm
RATE	556 mL/ha 0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Colorado potato beetle
RATE	556 – 670 mL/ha 0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached.
	For control of Colorado potato beetle, make the first application after approximately 50% of the egg masses have hatched and larvae are present. If two applications are needed, limit them to a single Colorado potato beetle generation per crop.
	Thorough coverage is important to obtain optimum control.
	Do not apply MINECTO PRO for Colorado potato beetle control if any Group 28 insecticide was used at planting as an in-furrow, soil treatment.
MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	3 at upper range rate; or 5 at lower range rate
MAXIMUM NUMBER OF CONSECUTIVE SPRAYS	Make up to 2 consecutive applications then switch to a non-Group 6 and non-Group 28 insecticide. Follow all precautions, restrictions and directions on the labels of insecticide products used in an alternation program.
MAXIMUM AMOUNT OF PRODUCT PER SEASON	2.223 L/ha
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL (PHI)	Do not apply within 7 days of harvest
SPECIFIC RESTRICTIONS	For cabbage looper, armyworm, beet armyworm, fall armyworm, cutworm, European corn borer, Liriomyza leafminers, flea beetle, broad mite, spider mites, tomato russet mite, tomato psyllid, tomato fruitworm (corn earworm), tobacco hornworm and tomato hornworm, do not make a foliar application of MINECTO PRO for a minimum of 60 days following an in-furrow or soil application or planting of seed or seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table. Pollinator Precautions: This product is toxic to bees. Avoid application during the crop blooming period. If applications must be made during
	the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period (onset of flowering until after petal fall is complete).

11.7 Curcubit Vegetables – Crop Group 9

11.7 Curcubit Vegetal	oics Grop Group 5	
CURCUBIT VEGETABLES	Consumbit Variation (Consumerors	0)
CROP GROUP	Cucurbit Vegetables (Crop group 9) Crops (including all cultivars, varieties and/or hybrids of these)	
	Chinese waxgourd (Chinese	pumpkin
	preserving melon)	squash, summer (including
	citron melon	crookneck squash, scallop
	cucumber	squash, straighneck squash,
	gherkin	vegetable marrow, and
	gourd, edible (including hyotan,	zucchini)
	cucuzza, hechima and Chinese	squash, winter (including
	okra)	butternut squash, calabaza,
	<i>Momordica</i> spp. (including balsam	hubbard squash, acorn squash,
	apple, balsam pear, bitter melon,	and spaghetti squash)
	Chinese cucumber)	watermelon
	muskmelon (including true	
	cantaloupe, cantaloupe, casaba,	
	crenshaw melon, golden pershaw	
	melon, honeydew melon, honey	
	balls, mango melon, Persian melon,	
	pineapple melon, Santa Claus	
DEGTS CONTROLLED	melon and snake melon)	
PESTS CONTROLLED	Cabbage looper, armyworm and fa	ali armyworm
RATE	370 mL/na 0.1-0.5% v/v non-ionic surfactant (N∣	19)
APPLICATION TIMING AND	Begin applications when treatment the	
INSTRUCTIONS	Degin applications when treatment to	ilications have been reacticu.
MOTROCTIONS	Thorough coverage is important to o	btain optimum control
PESTS CONTROLLED	Cutworm	
RATE	385 – 556 mL/ha	
12112	0.1-0.5% v/v non-ionic surfactant (N	IS)
APPLICATION TIMING AND	Begin applications when treatment to	
INSTRUCTIONS		
	For early season cutworm control, a	
	expected in the next 24 hours. For o	
	plants or when lower portions of plar	nt can receive ad equate coverage.
	T	ladadin and the construction
DEGTE CONTROLLED	Thorough coverage is important to o	btain optimum control.
PESTS CONTROLLED	Spider mites	
RATE	385 – 670 mL/ha	167
APPLICATION TIMING AND	0.1-0.5% v/v non-ionic surfactant (N	
INSTRUCTIONS	Apply when mites are first observed needed, to maintain control within co	and repeat application, as onetraints of a resistance
INOTIOOTIONS	management program.	ภารแผนเร () สาดรารโสมเด
	managoment program.	
	Thorough coverage is important to o	btain optimum control.
PESTS CONTROLLED	Corn earworm	•
RATE	556 mL/ha	
	0.1-0.5% v/v non-ionic surfactant (N	IS)
APPLICATION TIMING AND	Begin applications when treatment to	
INSTRUCTIONS		
		btain optimum control.

MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF	3 at upper range rate; or
APPLICATIONS PER	5 at lower range rate
SEASON	
MAXIMUM NUMBER OF	Make up to 2 consecutive applications then switch to a non-Group 6
CONSECUTIVE SPRAYS	and non-Group 28 insecticide. Follow all precautions, restrictions and
	directions on the labels of insecticide products used in an alternation
	program.
MAXIMUM AMOUNT OF	2.010 L/ha
PRODUCT PER SEASON	
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL	Do not apply within 7 days of harvest
(PHI)	
SPECIFIC RESTRICTIONS	Do not apply MINECTO PRO unless spider mites and another labelled
	insect are present at the same time.
	D. () (III III III (IIII) DDO () ()
	Do not make a foliar application of MINECTO PRO for a minimum of
	60 days following an in-furrow or soil application or planting of seed or
	seed pieces treated with any Group 28 insecticide unless otherwise
	directed in the Directions for Use table.
	Dellinator Drescutioner This product is toxic to be a Assid and listing
	Pollinator Precautions: This product is toxic to bees. Avoid application
	during the crop blooming period. If applications must be made during
	the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination
	services, DO NOT apply during the crop blooming period (onset of
	flowering until after petal fall is complete).
	nowening until after petarrail is complete).

11.8 Apple

APPLE	
CROP	Apple
PESTS CONTROLLED	Codling moth, Oriental fruit moth, spotted tentiform leafminer, Western tentiform leafminer, oblique-banded leafroller, threelined leafroller, fruittree leafroller, European leafroller, eyespotted bud moth, tufted apple bud moth, European apple sawfly, two-spotted spider mite, McDaniel mite, European red mite
RATE	496 mL/ha
	Apply with 0.25-1% v/v spray oil OR 0.1-0.5% non-ionic surfactant (NIS) in the spray mixture
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.
INSTRUCTIONS	For optimum control of first generation codling moth, apply before first egg hatch (80 to 110 degree days Celsius after BIOFIX). For second generation codling moth, timing is based on first egg hatch after establishing a new BIOFIX. BIOFIX is determined to be set when a first consistent moth catch has been attained within the orchard. For the determination of degree-days for codling moth, a lower and upper threshold of 10 and 31 degrees Celsius is used.
	For optimum control of oriental fruit moth, apply at first egg hatch of the targeted generation.
	For optimum control of tentiform leafminer, apply against egg (to control new hatch) and early sap feeder stages of first- and second-generation tentiform leafminers when locally established thresholds have been reached.
	For optimum control of over-wintering generations of oblique-banded leaf roller, monitor larval population in the spring, and apply when over-wintering larvae become active, from pink stage through petal fall. For summer generations, monitor adult moth flight, and apply at first egg hatch (170 to 240 degree days Celsius) after the first sustained moth catch.
	For optimal results, apply before a threshold of five spider mites per leaf is reached. Residual spider mite control is greater from spray deposits on newer leaves compared to older. For best results, apply MINECTO PRO for spider mite control in the tree development period extending from petal fall through 6 weeks following petal fall.
	Thorough coverage is important to obtain optimum control.

MINIMUM SPRAY VOLUME	450 L/ha
MAXIMUM NUMBER OF	1
APPLICATIONS PER	
SEASON	
MAXIMUM NUMBER OF	1 application in total then switch to a non-Group 6 and non-Group 28
CONSECUTIVE SPRAYS	insecticide. Follow all precautions, restrictions and directions on the
	labels of insecticide products used in an alternation program.
MAXIMUM AMOUNT OF	0.5 L/ha
PRODUCT PER SEASON	
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL	Do not apply within 28 days of harvest
(PHI)	
SPECIFIC RESTRICTIONS	Do not make a foliar application of MINECTO PRO for a minimum of
	60 days following an in-furrow or soil application or planting of seed or
	seed pieces treated with any Group 28 insecticide unless otherwise
	directed in the Directions for Use table.
	Pollinator Precautions: This product is toxic to bees. Do not apply
	during the crop blooming period (onset of flowering until after petal fall
	is complete).

11.9 Pear

PEAR	
CROP	Pear
PESTS CONTROLLED	Codling moth, Oriental fruit moth,
RATE	556 mL/ha Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the spray mixture
PESTS CONTROLLED	Spotted tentiform leafminer and Western tentiform leafminer
RATE	496 mL/ha Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the spray mixture
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached. For optimum control of first generation codling moth, apply before first egg hatch (80 to 110 degree days Celsius after BIOFIX). For second generation codling moth, timing of the application is based on first egg hatch after establishing a new BIOFIX. BIOFIX is determined to be set when a first consistent moth catch has been attained within the orchard. For the determination of degree-days for codling moth, a lower and upper threshold of 10 and 31 degrees Celsius is used. For optimum control of oriental fruit moth, apply at first egg hatch of the targeted generation For optimum control of tentiform leafminer, apply against egg (to control new hatch) and early sap feeder stages of first- and second-generation tentiform leafminers when locally established thresholds have been reached. Thorough coverage is important to obtain optimum control.

PESTS CONTROLLED	Oblique-banded leafroller, threelined leafroller, fruittree leafroller, European leafroller, eyespotted bud moth, tufted apple bud moth, European apple sawfly
RATE	496 – 741 mL/ha
	Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of
	spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the
	spray mixture
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached.
	For optimum control of over-wintering generations of oblique-banded leaf roller, monitor larval population in the spring, and apply when overwintering larvae become active, from pink stage through petal fall. For summer generations, monitor adult moth flight, and apply at first egg hatch (170 to 240 degree days Celsius) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be needed to control the extended emergence of small larvae.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Two-spotted spider mite, McDaniel mite, European red mite, pear rust mite, yellow mite and pear psylla
RATE	496 – 1000 mL/ha
	Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of
	spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the
	spray mixture
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.
INSTRUCTIONS	For optimal results, apply before a threshold of five spider mites per leaf
	is reached. Residual spider mite control is greater from spray deposits on newer leaves compared to older. For best results, apply MINECTO PRO for spider mite control in the tree development period extending from petal fall through 6 weeks following petal fall. If monitoring indicates the need, a second application at an interval of 21 days may be made.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Green peach aphid, rosy apple aphid and white apple leafhopper
RATE	556 – 1000 mL/ha
	Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of
	spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the
	spray mixture
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached.
	Applications of MINECTO PRO for control of white apple leafhopper are limited to first-generation white apple leafhoppers. Apply soon after petal fall.
	Thorough coverage is important to obtain optimum control.
	O

PESTS CONTROLLED	Apple maggot, plum curculio and Japanese beetle
RATE	741 – 919 mL/ha
	Apply with 0.25-1% v/v spray oil in the spray mixture or 10-20 L of
	spray oil per hectare OR 0.1-0.5% non-ionic surfactant (NIS) in the
	spray mixture
APPLICATION TIMING AND INSTRUCTIONS	Begin applications when treatment thresholds have been reached.
	For apple maggot control, apply 7 to 10 days after the first apple maggot fly is caught on the traps in orchard.
	For Japanese beetle, monitor adult populations and insect damage. Follow provincial guidelines for treatment thresholds.
	For plum curculio, monitor trees along the edge of the orchard for the first sign of feeding damage after bloom.
	Thorough coverage is essential for optimum control.
MINIMUM SPRAY VOLUME	450 L/ha
MAXIMUM NUMBER OF	1 at upper range rate; or
APPLICATIONS PER	2 at lower range rate
SEASON	•
MAXIMUM NUMBER OF	Make up to 2 consecutive applications then switch to a non-Group 6
CONSECUTIVE SPRAYS	and non-Group 28 insecticide. Follow all precautions, restrictions and
	directions on the labels of insecticide products used in an alternation
	program.
MAXIMUM AMOUNT OF PRODUCT PER SEASON	1.0 L/ha
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL	Do not apply within 28 days of harvest
(PHI)	
SPECIFIC RESTRICTIONS	Do not make a foliar application of MINECTO PRO for a minimum of 60
	days following an in-furrow or soil application or planting of seed or
	seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.
	Pollinator Precautions: This product is toxic to bees. Do not apply
	during the crop blooming period (onset of flowering until after petal fall
	is complete).

11.10 Leaf Petioles – Crop Subgroup 22B

	- Grop Subgroup 22B
LEAF PETIOLES	
CROP SUBGROUP	Leaf Petioles (Crop subgroup 22B)
	Crops (including all cultivars, varieties and/or hybrids of these)
	cardoon Rhubarb
	celery udo
	celery, Chinese zuiki
	fuki
PESTS CONTROLLED	Cabbage looper, armyworm, beet armyworm and fall armyworm
RATE	370 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.
INSTRUCTIONS	
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Cutworm
RATE	370 – 556 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Begin applications when treatment thresholds have been reached.
INSTRUCTIONS	3 11
	For early season cutworm control, apply to foliage when rain is no
	expected in the next 24 hours. For optimal control, apply to smaller
	plants or when lower portions of the plant can receive adequate
	coverage.
	o voi ago.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Pea leafminer
RATE	370 – 741 mL/ha
IVATE	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	For control of leafminers, apply when first adult flies are first observed
INSTRUCTIONS	and repeat applications as needed to maintain control.
mornoonom	and repeat applications as needed to maintain control.
	Thorough coverage is important to obtain optimum control.
PESTS CONTROLLED	Corn earworm
	556 mL/ha
RATE	0.1-0.5% v/v non-ionic surfactant (NIS)
DECTC CONTROLLED	
PESTS CONTROLLED	Carmine spider mite and two spotted spider mite
RATE	370-670 mL/ha
	0.1-0.5% v/v non-ionic surfactant (NIS)
APPLICATION TIMING AND	Apply when mites first appear and repeat as needed to maintain
INSTRUCTIONS	control. Thorough coverage is important to obtain optimum control.
	For Corn earworm, being applications when treatment thresholds have
	been reached.
	Thorough coverage is important to obtain optimum control.

MINIMUM SPRAY VOLUME	200 L/ha
MAXIMUM NUMBER OF	3 at upper range rate; or
APPLICATIONS PER SEASON	6 at lower range rate
MAXIMUM NUMBER OF CONSECUTIVE SPRAYS	Make up to 2 consecutive applications then switch to a non-Group 6 and non-Group 28 insecticide. Follow all precautions, restrictions and directions on the labels of insecticide products used in an alternation program.
MAXIMUM AMOUNT OF	2.223 L/ha
PRODUCT PER SEASON	
APPLICATION INTERVAL	7 days
RE-ENTRY INTERVAL (REI)	12 hours after application
PRE-HARVEST INTERVAL (PHI)	Do not apply within 7 days of harvest
SPECIFIC RESTRICTIONS	Do not make a foliar application of MINECTO PRO for a minimum of 60 days following an in-furrow or soil application or planting of seed or seed pieces treated with any Group 28 insecticide unless otherwise directed in the Directions for Use table.

11.11 Rotational Crop Restrictions

Recommended	Crops
Plant-Back Intervals (PBI) for Rotational	
Crops	
0 days	Crop Subgroup 1B (Root Vegetables, except sugar beet); Crop Subgroup 1C (Tuberous and Corm Vegetables); Crop Group 2 (Leaves of Root and Tuber Vegetables); Crop Group 3-07 (Bulb Vegetables); Crop Group 4 (Leafy Vegetables, except <i>Brassica</i> vegetables); Crop Group 5 (<i>Brassica</i> (Cole) Leafy Vegetables); Crop Group 6 (Legume Vegetables, Succulent or Dried); Crop Group 7 (Foliage of legume vegetables); Crop Group 8-09 (Fruiting Vegetables); Crop Group 9 (Cucurbit Vegetables); Crop Subgroup 13-07A (Canneberries); Crop Subgroup 13-07H (Low Growing Berries, except Strawberries); Crop Group 20 (Oilseeds); peanuts; strawberries
30 days	Crop Group 1A (Root and Tuber Vegetables); Crop Group 15 (Cereal grains); Crop Group 16 (Forage, fodder, and straw of cereal grains); Crop Group 17 (Grass forage, fodder, and hay); Crop Group 18 (Nongrass animal feeds: Forage, fodder, straw and hay)
365 days	Other crops

12.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MINECTO PRO contains a Group 6 insecticide/miticide (abamectin, belonging to the avermectin class of chemistry) and a Group 28 insecticide/miticide (cyantraniliprole, belonging to the diamide class of chemistry). Any insect/mite population may contain individuals naturally resistant to MINECTO PRO and other Group 6 or 28 insecticides. The resistant individuals may dominate the insect/mite population if this group of insecticides is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area.

To delay insecticide/miticide resistance:

Where possible, rotate the use of MINECTO PRO or other Group 6 or 28 insecticides/miticides with different groups that control the same pests in a field.

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

Insecticide/miticide 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. If resistance is suspected, do not reapply MINECTO PRO or other Group 6 or Group 28 insecticides/miticides.

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 company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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