



## **SETTING UP GOOD STORIES IN 2024**

You'd think we would know how the story goes for Agriculture in Eastern Canada, but it seems to be writing its own course year after year. A cool, wet year was how things went, an abundance of moisture, or never quite enough continues to be the basis of every story.

Growers continue to strive to grow healthy, profitable crops. Regardless of everything that's out of their control – weather, markets and more – there's much in the area of production that they can control. Growers can give their crops a weed-free start, and protect their crops against losses due to insects and weeds.

FMC continues to bring solutions to make those goals achievable. With burn-off, extended weed control, in-crop, insecticides and now with a growing fall portfolio, FMC can partner with retailers and growers to bring the best agronomic choice to their operation. With our advanced chemistries and robust pipeline of products, we are in it for the long run to be your partner in helping to increase yields and profitability.

In the following pages, you will see products that can help you reach your goals on your farm. Thank you for choosing to farm. We're proud to be a part of your team.





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# Herbicide

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### A flexible tank-mix partner for enhanced burnoff and harvest-aid

- Controls a wide range of troublesome weeds and provides a quicker burndown of hard-tocontrol species
- Controls many glyphosate-resistant weed biotypes
- Potato harvest aid¹: provides broadleaf weed control and potato leaf and stem dessication for improved harvestability and tuber quality
- Sucker control in grapes, stone fruit, pome fruit, tree nuts and primocane control in caneberries
- Crops: Harvest-aid: Potatoes, dry beans, soybean and other legume crops. Refer to the label pre-harvest interval table for appropriate application timing.

**Pre-plant burnoff:** Cereals, cucurbit vegetables, fruiting vegetables, legume vegetables, potatoes, rapeseed (including canola) and sunflowers.

**Pre-emergence:** Cereals, legume vegetables, rapeseed (including canola) and sunflowers.

**Hooded sprayer application:** Brassicas, berries, bulb vegetables, cucurbits, fruiting vegetables, leafy vegetables, legumes, mint, pome fruit, root vegetables, stone fruit and tree nuts.

**Post-harvest burndown:** Aim® EC herbicide can be applied after harvest to control certain emerged weeds. Cereals, cucurbits, fruiting vegetables, legume vegetables, mint, potatoes, rapeseeds (including canola) and sunflowers can be planted the following spring after post-harvest application. All other crops can be planted after 12 months.

Do not apply more than two applications in total per year, including post-harvest application.

- Timing: Pre-Seed, pre-emerge (up to 3 days after seeding), harvest-aid and post-harvest application
- Herbicide Group: Group 14
- O Active Ingredient(s): Carfentrazone-ethyl
- Packaging: 8 x 1.2 L jugs per case
- **©** Crop Rotation:

Сгор	Rotation Interval
Legumes, fruiting vegetables, cucurbits, cereals, oilseeds and potatoes	Any time
All other crops	12 months



Weeds Controlled and Application Information				
Weeds	Rate	Application Information		
Lamb's-quarters (up to 7.5 cm tall), morning glory (up to 3 leaves), black nightshade (up to 5 cm tall), Eastern black nightshade (up to 5 cm tall), pigweed (redroot), velvetleaf, tall waterhemp (up to 5 cm tall)	15 mL/ac	Water volume: 10 gal/ac (100 L/Ha) Registered and Supported Tank-Mixes <sup>3</sup> : Glyphosate, 2,4-D ester, MCPA Ester, Nufarm Koril® 235, IPCO® Brotex® 240,		
All above plus: Flixweed, lamb's-quarters, mallow (round-leaved), morning glory, nightshade (hairy), pigweed (prostrate, smooth, tumble), purslane (common), Pennsylvania smartweed (seed- ling), stinkweed, mustard (tansy), waterhemp (common, tall)	htshade (hairy), pigweed (prostrate, smooth, common), Pennsylvania smartweed (seed-			
All above plus: Carpetweed, cleavers, cocklebur, jimsonweed, kochia, black nightshade, Eastern black nightshade, Russian thistle (up to 5 cm tall), shepherd's purse, volunteer canola (all types)	30 mL/ac	Control of weeds up to 10 cm tall, or as specified. Apply with adjuvant: Please refer to FMC's Tank Mix Policy on Page 81. Non-ionic surfactant (0.25% v/v), Merge® (1% v/v), Destination™ MSO (1% v/v), Journey™ or Destinaire™ High		
All above plus: Burclover, lettuce (prickly), Venice mallow, corn spurry	47 mL/ac	Surfactant Oil Concentrates (0.5% v/v) See label for instructions regarding use of Aim® EC herbicide in sucker management.		

**Surfactant note -** Preplant, pre-emergence, post-harvest and in-fallow: When using Aim® EC herbicide alone, use a non-ionic surfactant at 0.25% v/v, Merge® at 1% v/v, Destination™ MSO at 1% v/v or Journey™ or Destinaire™ High Surfactant Oil Concentrates at 0.5% v/v. A surfactant is not required when tank mixed with glyphosate. Refer to label for surfactant information for harvest-aid use.

### Aim® EC herbicide for potato desiccation

Benefits of tank-mixing Aim® EC herbicide with Reglone® Desiccant for potato desiccation

- Improves vine kill's success rate, resulting in:
  - Better skin set
  - Better detachment of the tuber from the stolon
- Reliable control of tough broadleaf weeds like kochia, lamb's-quarters, nightshades and more

	Reglone® desiccant	Aim <sup>®</sup> EC herbicide
Active	Diquat ion (dibromide) (240 g/L)	Carfentrazone-ethyl (240 g/L)
Rate	1st app: 506 - 931 mL/ac 2nd app: 506 mL/ac	1st app: 94 - 142 mL/ac 2nd app: 94 - 142 mL/ac
PHI	1 day	7 days

Thorough coverage of the potato plant to be desiccated is essential (minimum of 10 gal/ac (100 L/Ha) water volume).

<sup>&</sup>lt;sup>1</sup> For maximum pre-harvest benefits, tank-mixing Aim® EC herbicide + Reglone® Desiccant is recommended.

<sup>&</sup>lt;sup>2</sup> Refer to label for complete crop listing.

<sup>&</sup>lt;sup>3</sup> Adjuvant not required for some tank mixes, see label.



### Extended control of tough broadleaf weeds

 Pre-plant/pre-emergent extended control of tough broadleaf weeds in soybeans and a wide range of other crops

Crops: Soybeans, chickpeas, field peas, flax, sunflower, tame mustard, asparagus, faba bean, mint, strawberry, horseradish, cabbage (transplants only), tomato (transplants only), walnuts, grapes, caneberries, bushberries, apples, and spring and durum wheat

Herbicide Group: Group 14

Active Ingredient(s): Sulfentrazone
Packaging: 4 x 3.79 L jugs per case

Crop Rotation

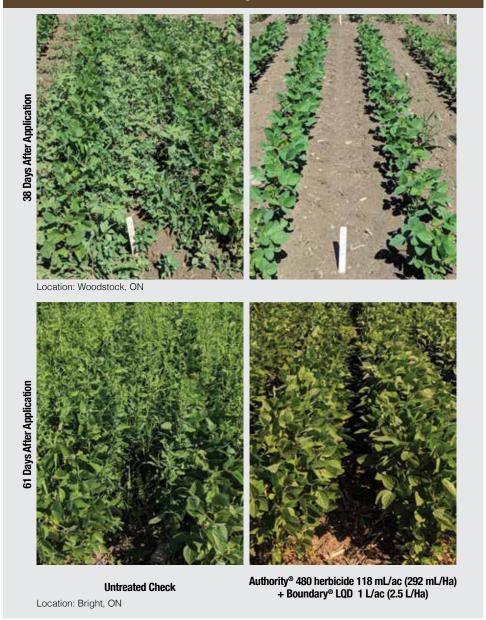
Rotation Interval	Crop		
Any time (All rates)	Broccoli, cabbage, cauliflower, chickpea, faba bean, field pea, flax, horseradish, potato, soybean, sunflower, tomato (transplants)		
Any time (Low Rate)	Tame mustard; spring and durum wheat		
4 months	Winter wheat		
12 months	Alfalfa, barley, canary grass, canola, field corn, oats, spring and durum wheat (high rate)		
24 months	Sweet and pop corn, lentils, sorghum		

Weeds Controlled and Application Information				
Weeds	Rate	Application Timing	Application Information	
Kochia Russian thistle <sup>1</sup>	43 ac/jug (89 mL/ac)	Apply pre-plant or post-seed	Early application (pre-plant) increases activation potential via spring showers. Post-seed application should be	
Cleavers <sup>1</sup> Common groundsel Common purslane	32 ac/jug (118 mL/ac)	(up to 3 days after seeding).	considered in higher disturbance situations.  A minimum of 10 gal/ac (100 L/Ha) provides best uniform soil coverage with medium to coarse droplet sizes.	
Common waterhemp Eastern black nightshade Kochia		or in weed	To supplement broadleaf control, tank-mix with metribuzin or imazethapyr or Express® SG herbicide. To control grass weeds, tank-mix with Focus® herbicide, Boundary® LQD, or Conquest® LQ.	
Lamb's-quarters Large crabgrass				Do not apply Authority® 480 herbicide to fields treated with products containing sulfentrazone in the previous year.
Powell pigweed Redroot pigweed Russian thistle <sup>1</sup> Smooth crabgrass Wild buckwheat		Do not apply Authority ® 480 he containing sulfentrazone) to spri Focus® herbicide (or any other pulfone) was applied in the previous of the containing sulfent in the conta	Do not apply Authority <sup>®</sup> 480 herbicide (or any other product containing sulfentrazone) to spring wheat if an application of Focus <sup>®</sup> herbicide (or any other product containing pyroxasulfone) was applied in the previous fall.	
Yellow woodsorrel			Do not apply to soils classified as coarse-textured soils.	
		Do not apply in any type of soil with organic matter lower than 1% or greater than 6%.		
			Do not use on soils with a pH of 7.8 or greater.	

<sup>&</sup>lt;sup>1</sup>Suppression



#### **Excellent Pre-Emergent Weed Control**



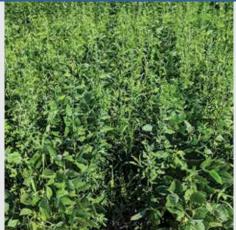


### Your next line of defense against grassy weeds, broadleaf weeds and resistance

- Pre-plant/pre-emergent grassy and broadleaf extended weed control for soybeans, field peas, sunflowers, chickpeas and field-grown conifers (including Christmas trees)
- Consistent performance on tough to control weeds
- Multiple rate options: lower rate in herbicide-tolerant (HT) soybeans for critical early season weed control or higher rate for longer, extended weed control in IP soybeans
- Multiple modes of action for resistance management
- Crops: Soybeans (IP or HT), field peas, sunflowers, chickpeas and field-grown conifers (including Christmas trees)
- Herbicide Groups: Groups 14 & 15
- Active Ingredient(s): Sulfentrazone, pyroxasulfone
- Packaging: 2 x 8 L jugs per case
- Crop Rotation

Rotation Interval	Сгор		
Any time	Soybeans, sunflowers, chickpeas, field peas		
4 months	Winter wheat		
12 months	Barley, canola, field corn, mustard, oats, spring and durum wheat		
24 months	Lentils		
36 months	Sugar beet		

#### **Broadleaf and Grassy Weed Control**





**Untreated Check** 

Authority® Supreme herbicide (202 mL/ac)

51 Days After Application

Location: Bright, ON







Weeds Controlled and Application Information			
Weeds	Rate	Application Timing	Application Information
Grass weeds Barnyardgrass Brome (downy, Japanese) Crabgrass (large, smooth) Foxtail (green, yellow, giant) Witchgrass Wild oats¹ Broadleaf weeds Cleavers Common groundsel Common purslane Common ragweed¹ Common waterhemp Cow cockle Eastern black nightshade Kochia Lamb's-quarters Palmer amaranth Pigweed (redroot, green/Powell) Russian thistle¹ Stinkweed Wild buckwheat Wild mustard¹ Yellow woodsorrel	Setup Treatment (early season control only) 50 ac/jug (162 mL/ac)  Extended Control 40 ac/jug (202 mL/ac) (medium texture, 0.M. 1.5 - 3%)  33 ac/jug (243 mL/ac) (medium-fine/ fine texture, 0.M. 3 - 6%)	Apply pre-plant or pre-emergence (up to 3 days after seeding).	Early application (pre-plant) increases activation potential via spring showers. Pre-emergence application should be considered in higher disturbance situations.  A minimum of 10 gal/ac (100 L/Ha) provides best uniform soil coverage with medium to coarse droplet sizes.  Authority® Supreme herbicide can be applied on its own or mixed with one or more herbicide products, provided that the tank-mix product labels do not prohibit such mixing.  Authority® Supreme herbicide can be tank-mixed with labelled rates of glyphosate (that are registered for the same uses).  Please refer to FMC's Tank Mix Policy on Page 81.  DO NOT apply Authority® Supreme herbicide or Authority® Supreme herbicide or any product containing sulfentrazone, in the previous year.  Restrictions:  Do not apply to soils classified as coarse-textured soils.  Do not use on peat or muck soils.  Do not apply on any type of soils with an organic matter content less than 1.5% or greater than 6%.  Do not use on soils with a pH of 7.8 or greater.
Horsetail control in field-grown conifers (including Christmas trees)	20 ac/jug (408 mL/ac)	Pre-emergence to horsetail, applying as soon as the ground thaws	Not recommended for over-the-top broadcast spray, limit to directed sprays (banded application).  Maximum one application per season.  Testing on a small number of plants will determine suitability for widespread application. Prior to treating the entire crop, examine test plants for 4-8 weeks for symptoms of phytotoxicity.

<sup>1</sup>Suppression





### Systemically controls your toughest broadleaf weeds with multiple modes of action

- Controls a wide range of troublesome weeds, including chickweed, common ragweed, dandelion, lamb's-quarters, perennial sow thistle, tufted vetch and pigweeds, along with suppression of Canada thistle, wild carrot, and more
- Gentle on the crop and has outstanding re-cropping flexibility the following year
- Powered by Solumax® soluble granules for effective and consistent weed control, as well as easier, more consistent sprayer cleanout to reduce risk to subsequently sprayed crops
- Crops: Wheat (winter, spring, durum), spring barley, oats
- Herbicide Groups: Groups 2 & 4
- O Active Ingredient(s): Thifensulfuron-methyl, Tribenuron-methyl, Fluroxypyr and MCPA Ester
- Packaging: Case 486 g + 3.4 L + 7.6 L (case treats 40 acres)
- © Crop Rotation:

Rotation Interval Crop	
Can be seeded the following year	Alfalfa, barley, canola, corn, dry beans, faba beans, flax, forage grasses, lentils, mustard, oats, peas, potatoes, rye, soybeans, sugar beets, sunflowers and wheat.

	Weeds Controlled and Application Information					
Crop	Weeds	Rate	Application Timing			
Wheat (winter, spring, durum), spring barley, oats.	Canada thistle¹ Cleavers (1 to 9 whorls) Common chickweed (1-6 leaf) Common ragweed (up to 10 cm) Cow cockle Dandelion (spring and fall rosettes up to 15 cm) Flixweed Hemp-nettle (1-8 leaf) Kochia (up to 10 cm) Lamb's-quarters Narrow-leaved hawk's-beard Night-flowering catchfly Perennial sow thistle Redroot pigweed Round-leaved mallow (1-5 leaf) Russian thistle Scentless chamomile Shepherd's purse (up to 20 cm) Smartweed (green, lady's thumb) Stinkweed Stork's-bill (1-6 leaf) Tufted vetch (up to 15 cm) White cockle Wild buckwheat Wild carrot¹ (up to 15 cm) Wild mustard Volunteer canola (2-4 leaf) Volunteer flax (up to 12 cm)	40 ac/jug  Add a registered non-ionic surfactant (NIS) at 2 L per 1000 L of spray solution (0.2% v/v).  When tank-mixing with a grass herbicide, use the surfactant provided with that product. Do not use additional surfactant unless otherwise indicated on the label.	Spring wheat & barley and oats - 3 leaf to initiation of stem elongation.  Winter wheat - 3 tiller to just before flag leaf.  Minimum water volume of 5 gal/ac (50 L/Ha) recommended.			

<sup>1</sup>Suppression











16 DAA 47 DAA

#### Barricade® M herbicide on Wild Carrot





Untreated Check 42 DAA

#### Barricade® M herbicide on Canada Thistle





16 DAA 47 DAA



### Broadleaf and grassy weed control in a variety of horticultural crops

- Microencapsulated (ME) formulation
- · Controls broadleaf and grassy weeds in processing pumpkins, squash and cucurbits
- Excellent tank-mix partner
- Effective in conventional tillage, reduced tillage and no-till practices
- Crops: Soybeans, field cucumbers, melons, squash, field peppers, processing pumpkins, cilantro, field sweet potatoes, canola, mustard, camelina and asparagus
- Herbicide Group: Group 13
- Active Ingredient(s): Clomazone
- Packaging: 2 x 5.4 L jugs per case
- Crop Rotation

Rotation Interval	Сгор	Rate of Command <sup>®</sup> 360 ME herbicide
Any time	Soybeans, spring canola, mustard, camelina	101-134 mL/ac
4 months	Winter wheat	
Following spring	Beans (white, kidney, snap), corn (field, sweet), peas, peppers (transplant, plugs), broccoli (transplant, plugs), cucumbers, melons, pumpkins, squash, potatoes, spring wheat, durum wheat, spring barley, oats, lentils	
Any time	Soybeans	316-951 mL/ac
Following spring	Beans (white, kidney, snap), corn (field, sweet), peas, peppers (transplant, plugs), broccoli (transplant, plugs), cucumbers, melons, pumpkins, squash, potatoes, spring canola, spring wheat	
16 months	All other crops	

	Weeds Controlled and Application Information					
Crop	Weeds	Rate	Application Timing	Application Information		
Soybean, peppers, asparagus	Velvetleaf Lamb's-quarters Lady's thumb (smartweed) Eastern black nightshade Redroot pigweed <sup>2</sup> Common ragweed <sup>2</sup> Barnyardgrass Green foxtail Yellow foxtail <sup>1</sup>	Based on soil type Light: 627 mL/ac Medium: 789 mL/ac Heavy: 951 mL/ac	Soybean - apply between seeding and soybean emergence Peppers - apply before transplanting and prior to weed emergence Asparagus - apply prior to spear emergence or after a clean harvest	Minimum water volume of 10 gal/ac (100 L/Ha) is recommended.		



	Weeds Controlled and Application Information				
Crop	Weeds	Rate	Application Timing	Application Information	
Cilantro, melons	Velvetleaf <sup>2</sup> Lamb's-quarters <sup>2</sup> Barnyardgrass <sup>2</sup>	316 mL/ac	Apply as a single, soil-applied, pre-emergent treatment after seeding and prior to weed and crop emergence.	Apply in 10-40 gal/ac (100-375 L/Ha) of spray water	
Cucumbers, squash	Velvetleaf <sup>2</sup> Lamb's-quarters <sup>2</sup> Barnyardgrass <sup>2</sup>	316-474 mL/ac Use lower rate on light (coarse) soils and higher rate on heavy (fine) soils	Apply as a single, soil-applied, pre-emergent treatment after seeding and prior to crop and weed emergence.	Apply in 10-40 gal/ac (100-375 L/Ha) of spray water	
Sweet potato	Velvetleaf Lamb's-quarters Lady's thumb (smartweed) Eastern black nightshade Redroot pigweed <sup>2</sup> Common ragweed <sup>2</sup> Barnyardgrass Green foxtail Yellow foxtail <sup>2</sup>	627 mL/ac <sup>3</sup>	Apply as a single, soil-applied application after transplanting and prior to weed emergence.	Apply in a minimum of 10 gal/ac (100 L/Ha) spray water	
Canola	Cleavers <sup>4</sup> Common chickweed <sup>2</sup>	101-134 mL/ac	Apply as a single, soil-applied application prior to seeding canola and prior to weed emergence.	Apply in a minimum of 10 gal/ac (100 L/Ha) spray water	

¹Controlled only at the 950 mL/ac rate of Command® 360 ME herbicide when not tank-mixed. ²Suppression ³Coarse (light) soils: sandy-loam ⁴Suppression of cleavers at 101 mL/ac





### Control weeds down to the root in the fall to get crops off to a clean start in the spring

- Three modes of action when tank-mixed with glyphosate
- Enhanced control of key fall weeds: dandelion, Canada fleabane<sup>1</sup>, Canada thistle<sup>1</sup> and stinkweed
- Systemic activity all the way down to the root, so weeds won't grow back
- Can also be applied in the spring if desired
- Chemical Groups: 2, 4 & 9 when tank-mixed with glyphosate
- Active Ingredient(s): Tribenuron-methyl, dicamba
- Registered and Supported Tank-mixes: Must be tank-mixed with glyphosate. Please refer to FMC Tank Mix Policy on Page 81.
- (1) Timing: Pre-seed burnoff, chemfallow and post-harvest
- Crop Rotation:

Express® FX herbicide timing	Rotation Interval	Стор	
Pre-seed	24 hours	Wheat (spring, durum, winter), barley, oats	
Pre-seed	F 11 '	Any crop	
Chemfallow	Following Year	Any crop	
Post-harverst	ισαι	Canola, corn, lentils, oats, spring barley, soybeans, wheat (spring or durum), white bean	

### Application Information

Rates and Packaging: 2 x 1.86 kg jugs per case (each jug treats 40 acres)
Surfactant: No additional surfactant is required when tank-mixed with 0.5 REL glyphosate/acre
Water Volume: Minimum 5 US gal/ac (50 L/ha)

<b>Weeds Control</b> (Express <sup>®</sup> FX herbicide plus 0.5 L/ac	Stage	
Common ragweed Kochia (including Gr. 2 & 9 resistant biotypes)	Narrow-leaved hawk's-beard Scentless chamomile <sup>1</sup>	Up to 8 cm
Canada Fleabane <sup>1</sup> (including Group 9 resistant biotypes)	Wild Carrot <sup>1</sup>	Up to 10 cm
Cleavers Dandelion Downy brome Flixweed Giant foxtail Green foxtail Hemp-nettle Lady's-thumb Lamb's-quarters Persian darnel Redroot pigweed	Russian thistle Stinkweed Tufted vetch¹ Volunteer barley Volunteer canola (including glyphosate-tolerant varieties) Volunteer flax Volunteer wheat Wild mustard Wild oats	Up to 15 cm
Cow cockle		Up to 3 cm
Common chickweed	Wild buckwheat	Up to 8 cm
Canada thistle <sup>1</sup>	White cockle <sup>1</sup>	Rosette

<sup>&</sup>lt;sup>1</sup> Suppression.

Refer to the Express® FX herbicide label for complete use instructions.

<sup>†</sup> Original 360 g/L formulation.





### Enhance your spring burndown and burn weeds right down to the root

- Supports a weed-free start to the growing season
- Systemic activity on the weeds for control from shoots to roots
- Fall or spring application keeps your options open with flexible recropping
- Timing: Pre-seed burnoff, chemfallow and post-harvest applications.
- Herbicide Group: Group 2
- Active Ingredient(s): Tribenuron-methyl
- Packaging: 8 x 243 g jugs per case (each jug treats 40 acres)
- Registered Tank-mixes:

Express® SG herbicide must be tank-mixed with glyphosate for pre-seed, chemfallow and post-harvest applications.

Aim® EC herbicide + glyphosate and Authority® 480 herbicide + glyphosate. Consult the tank-mix partner label for specific application use and restrictions. (Always follow the most restrictive label)

Please refer to the FMC Tank Mix Policy on Page 81.

#### **©** Crops and Rotation:

Express® SG herbicide timing	Rotation Interval	Сгор
Spring Pre-seed Application	24 hours	Wheat (spring, winter, durum), barley, oats, pulse crops* (dry beans, soybean, faba beans, field peas, lupin, alfalfa*, clover* (red, yellow, sweet & alsike), bromegrass* (smooth, meadow & hybrid), timothy*, fescue* (creeping red, meadow & tall), sainfoin*, wheatgrass* (crested & slender), canary seed
2 months		Canola, flax
	Following year	Any other crop
Fall / Post-harvest 24 hours		Winter wheat
Application	Following spring	Any crop listed above for 24 hour spring application PLUS: Field corn, canola, flax, chickpea, lentil, faba beans

<sup>\*</sup>Note: Injury to pulse crops or forages may occur on coarse-textured soils, low in organic matter (less than 3%) or in fields with variable soils, gravely areas, sandy areas or eroded knolls. Avoid planting in soils containing more than 50% sand.





Crop	Weeds	Rate	Application Timing	Application Information
Wheat (spring, durum, winter), spring barley, oats, canary seed, and pulse crops*** (including dry bean, soybean, faba bean, field pea and lupin), red clover, alsike clover, alsike clover, alfalfa, bromegrass (smooth and meadow), timothy, creeping red fescue	Canada fleabane** (8 cm) Canada thistle¹ (rosette) Common chickweed (up to 8 leaf) Common ragweed Cow cockle (3-leaf) Dandelion Downy brome Foxtail (giant, green) Flixweed Hemp-nettle Kochia Lady's-thumb Lamb's-quarters Narrow-leaved hawk's beard (8 cm) Persian darnel Redroot pigweed Russian thistle Scentless chamomile¹ (8 cm) Stinkweed Tufted vetch (up to 15 cm)¹ Volunteer barley, wheat Volunteer canola Volunteer flax Wild buckwheat (3-leaf) Wild carrot (up to 10 cm)¹ White cockle¹ (rosette) Wild mustard Wild oat	6 g/ac + 0.5 L/ac REL* glyphosate	Pre-seed, chemfallow and post-harvest	Minimum water volume of 5 US gal/ac (50 L/Ha) is recommended
Tribenuron- tolerant sunflowers	Lamb's-quarters Wild buckwheat <sup>1</sup>	Express® SG herbicide at 15 g/Ha + Hasten® NT or Hasten® NT ULTRA spray adjuvant at 0.5% v/v OR a non-ionic surfactant such as Agral® 90 or Ag-Surf® at 0.2% v/v	In-crop: 2-8 leaf stage of sunflowers	Minimum water volume of 5 US gal/ac (50 L/Ha) is recommended Can be tank-mixed Express® SG herbicide at 15 g/Ha + Assure® II herbicide at labelled rates + Merge® at 0.5-1% v/v or SURE-MIX™ at 0.5% v/v Express® SG herbicide at 15 g/Ha + Hasten® NT at 0.5% v/v + Poast® Ultra Liquid Emulsifiable herbicide at 47 L/Ha Express® SG herbicide at 15 g/Ha + Select®, Centurion®, OR Shadow® RTM herbicide at 0.19 L/Ha + Amigo® adjuvant at 1% v/v





Crop	Weeds	Rate	Application Timing	Application Information
Pasture and rangeland	Narrow-leaved hawk's-beard Tall buttercup	6 g/ac + NIS at 0.2% v/v	In-crop	Minimum water volume of 5 US gal/ac (50 L/Ha) is recommended
	Above weeds PLUS: Common tansy Dandelion White cockle	12 g/ac + NIS at 0.2% v/v		recommended

Grassy weed control from glyphosate portion of tank-mix. All weeds sizing up to 15 cm unless otherwise stated <sup>1</sup> Suppression

<sup>\*\*\*</sup>For pre-seeding applications in spring, injury to FORAGES and PULSE CROPS planted in coarse-textured soils, low in organic matter (<3%), or in field with variable soils, gravely areas, sandy areas, or eroded knolls can occur



Location: Bright, ON

<sup>\*</sup>REL - Original 365 g/L formulation. Can tank-mix with glyphosate of choice

<sup>\*\*</sup>Will not control Gr. 2 and Gr. 9 resistant Canada Fleabane



### Superior pre-emergent, extended control of grassy weeds, plus effective broadleaf activity

- This pre-formulated product with two active ingredients provides long-lasting, extended control of grassy weeds, with good activity on several broadleaf weeds
- Ideal pre-plant/pre-emergent solution to fight weed resistance and helps maximize yield
- Tank-mixes easily for broader spectrum control
- Ocrops: Field corn, field peas, soybeans, sunflowers, wheat (spring and winter, excluding durum) and lentils
- (S Timing: Focus® herbicide can be applied pre-plant or pre-emergence. Requires a minimum 1/2" of moisture, at once, for activation. Should be planted a minimum 2.5 cm deep for wheat, and corn; minimum 4 cm deep for soybeans.
- Herbicide Groups: Groups 14 & 15
- Active Ingredient(s): Pyroxasulfone + carfentrazone-ethyl
- 🕜 Packaging: 4 x 4.5 L jugs per case
- Crop Rotation

Rotation Interval	Crop
Any time	Field corn, soybeans, wheat (winter and spring, excluding durum), field pea, sunflower and lentils
12 months	Chickpeas, flax, safflower, barley, canola, mustard, oats and durum wheat
24 months	Sugar beets

If there is a lack of adequate or normal soil moisture due to drought conditions following an application of Focus® herbicide, the minimum rotational crop interval described above must be extended for one additional year and a representative bioassay of the field must be conducted with the potential rotational crop and adequate soil moisture to determine the crop sensitivity to Focus® herbicide.

	Weeds Controlled and Application Information					
Crop	Weeds	Rate	Application Timing	Application Information		
Field corn, soybeans, wheat (spring and winter), lentils, field peas and sunflowers	Annual grasses Wild oats¹ Foxtail (green, yellow, giant¹) Foxtail barley¹ Barnyardgrass Downy brome Japanese brome Italian ryegrass Large crabgrass Annual bluegrass	Setup Treatment (early season control only) 50 ac/jug (91 mL/ac) Residual Treatments 40 ac/jug (113 mL/ac) (coarse/medium texture, 0.M. 1– 3%) 33 ac/jug (136 mL/ac) (medium-fine/fine texture, 0.M. >3 – 7%)	Apply pre-plant or post-seed (up to 3 days after seeding).	Only apply pre-seed if using low disturbance seeding equipment that does not move soil laterally.  Minimum water volume of 10 gal/ac (100 L/Ha)  Depending on the crop, Focus® herbicide is compatible with atrazine, Authority® 480 herbicide, glyphosate, metribuzin and imazethapyr.  Depending on the crop, tank-mix Focus® herbicide + Express® SG herbicide + glyphosate for pre-plant application to control broadleaf weeds and grasses in wheat, soybeans, field peas.		

<sup>&</sup>lt;sup>1</sup>Suppression



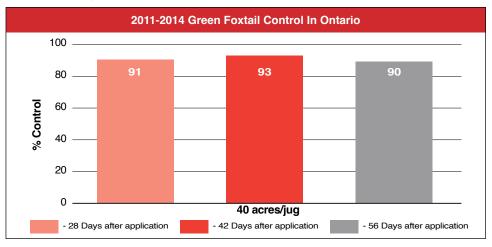


	Weeds Controlled and Application Information							
Crop	Weeds	Rate	Application Timing	Application Information				
Field corn, soybeans, wheat (spring and winter), lentils, field peas and sunflowers	Annual broadleafs Pigweed (green, redroot) Cleavers Common waterhemp Stinkweed¹ Velvetleaf Wormseed mustard Kochia¹ Lamb¹s-quarters¹ Wild buckwheat¹ Wild mustard¹ Eastern black nightshade	Setup Treatment (early season control only) 50 ac/jug (91 mL/ac) Residual Treatments 40 ac/jug (113 mL/ac) (coarse/medium texture, 0.M. 1- 3%) 33 ac/jug (136 mL/ac) (medium-fine/fine texture, 0.M. >3 - 7%)	Apply pre-plant or post-seed (up to 3 days after seeding).	Only apply pre-seed if using low disturbance seeding equipment that does not move soil laterally.  Minimum water volume of 10 gal/ac (100 L/Ha) Depending on the crop, Focus® herbicide is compatible with atrazine, Authority® 480 herbicide, glyphosate, metribuzin and imazethapyr. Depending on the crop, tank-mix Focus® herbicide + Express® SG herbicide + glyphosate for pre-plant application to control broadleaf weeds and grasses in wheat, soybeans, field peas. Refer to FMC Tank Mix Policy on Page 81.				

<sup>1</sup>Suppression



Location: Rockwood, ON





New, more convenient packaging

Study demonstrated broadleaf weed control in canola, sunflower and Laurentian rutabaga

· Control of wild mustard

Crops: Sunflower, canola, Laurentian rutabaga

Herbicide Group: Group 2

Active Ingredient(s): Ethametsulfuron-methyl

Packaging: 8 x 320 g jugs per case

( Timing:

Canola (spring seeded): 2 leaf stage to beginning of bolting

**Sunflower:** 2-8 leaf stage

Weeds: Apply early when weeds are small and actively growing

② Application Information:

Rates: See charts below. Make only one application per growing season.

Surfactant: Add a registered non-ionic surfactant (NIS) at 2 L per 1000 L of spray solution (0.2% v/v)

Water Volume: 10 US gal/ac (100 L/Ha)

Region	Rates	Weed Controlled	Recropping*					
	Canola (Spring Seeded)							
Southern Ontario	6 g/ac	Wild mustard (cotyledon to 6 leaf)	Year of treatment: winter wheat 10 months: soybeans, spring wheat, barley, oats					
Quebec and the Maritimes			Year of treatment: winter wheat 10 months: spring wheat, barley, oats					
Okanagan & Creston Valley areas of British Columbia	8 g/ac	Flixweed (spring seedlings), green smartweed, hemp-nettle, wild mustard, stinkweed <sup>1</sup>	10 months: spring wheat, barley, oats					
	12 g/ac	Flixweed (spring seedlings), green smartweed, hemp-nettle, wild mustard, stinkweed, and redroot pigweed <sup>1</sup>						

<sup>&</sup>lt;sup>1</sup> Suppression

Do not harvest canola within 60 days of treatment.

Sunflower							
Canada	8 g/ac	Flixweed (spring seedlings), green smartweed, hemp-nettle, wild mustard, stinkweed <sup>1</sup>	10 months: spring wheat, barley, oats				
	12 g/ac	Flixweed (spring seedlings), green smartweed, hemp-nettle, wild mustard, stinkweed, and redroot pigweed <sup>1</sup>					

<sup>1</sup> Sunnression

Do not harvest sunflower within 60 days of treatment.

Laurentian Rutabaga						
Canada	6 g/ac	Wild mustard (cotyledon to 6 leaf)	Year of treatment: Winter wheat 10 months: soybeans, spring wheat, barley, oats			

Do not harvest Laurentian rutabaga within 45 days of treatment.

Refer to the Muster® herbicide label for complete use instructions.

<sup>\*</sup>Refer to the label for additional recropping information





### Controls select broadleaf weeds in soybeans and field tomatoes

- New, more convenient packaging
- Recognized leader for post-emergent control of lamb's-quarters
- Powered by Solumax® soluble granules for effective and consistent weed control, and easier, more consistent sprayer cleanout that reduces risk to subsequently sprayed crops
- Crops: Soybeans, field tomatoes, Camelina (SES1154HR thifensulfuron-methyl tolerant)
- Herbicide Group: Group 2
- Active Ingredient(s): Thifensulfuron-methyl
- Packaging: 8 x 240 g jugs per case (each jug treats 50-72 acres).
- Crop Rotation: Any crop the following year

	Weeds Controlled and Application Information						
Crop	Weeds	Rate	Application Timing	Application Information			
Soybeans, field tomatoes	Lady's-thumb Redroot pigweed Wild mustard	3.3 g/ac + NIS	Soybeans: Apply post-emergent from the first fully expanded	Soybeans: Add a registered non-ionic surfactant (NIS) such as Agral® 90 or Ag-Surf® at 1 L per 1000 L of spray solution (0.1% v/v).			
	Lady's-thumb Lamb's-quarters Redroot pigweed Velvetleaf Wild mustard	dy's-thumb mb's-quarters droot pigweed lvetleaf  4.8 g/ac + NIS  trifoliate leaf to before the initiation of flowering. Target weeds when they are small.  Tomatoes:  Apply post-emergent		For more consistent control of velvetleaf, add 28% UAN at 4 L per 100 L of spray solution (4% v/v).  Tomatoes:  Add a registered non-ionic surfactant (Agral® 90 only) at 2.0 L per 1,000 L of spray solution (0.2% v/v).  For a wider spectrum of weeds, apply a tank-mix of Prism® herbicide and Pinnacle® SG herbicide 3 weeks after processing tomatoes are transplanted.			
Thifensulfuron- methyl tolerant camelina (SES1154HR) Only	Lady's-thumb Lamb's-quarters Redroot pigweed Velvetleaf Wild mustard	4.8 g/ac + NIS	Apply after camelina is established, up to 60 days before harvest, to young actively growing weeds less than 10 cm tall or across. Weeds that emerge after treatment will not be controlled. Do not make more than 1 application per year in thifensulfuron-methyl tolerant camelina.	Add a registered non-ionic surfactant (Ag-Surf®, Agral® 90 or Citowett® Plus) at 1L per 1000L of spray solution (0.1% v/v) OR a crop oil concentrate (such as Sure-Mix® at 0.5 L per 100L of spray solution (0.5% v/v) OR Assist® at 1-2L per hectare. Use a minimum spray volume of 100 L/Ha.  Do not apply by air.			



### Control of annual and perennial broadleaf weeds

- Broad-spectrum control of broadleaf weeds, including problem weeds such as dandelion, lamb's-quarters, chickweed and redroot pigweed. Suppression of perennial sow thistle and Canada thistle
- Two modes of action for effective resistance management
- Powered by Solumax® soluble granules for effective and consistent weed control, and easier, more consistent sprayer cleanout that reduces risk to subsequently sprayed crops
- Crops: Barley, oats, spring wheat, winter wheat, durum wheat
- Herbicide Groups: Groups 2 & 4
- Active Ingredient(s): Tribenuron-methyl + thifensulfuron-methyl + MCPA Ester
- Packaging: Case 486 g + 7.6 L (case treats 40 acres)
- Crop Rotation: Any crop the following year

	Weeds Controlled and Application Information						
Crop	Weeds	Rate	Application Timing	Application Information			
Barley, oats, durum wheat, spring wheat, winter wheat, (not underseeded to legumes or grasses)	Ball mustard Canada thistle¹ Chickweed (1-6 leaf) Cleavers¹ (1-3 whorls) Common groundsel Corn spurry Cow cockle Dandelion (spring and fall rosettes; < 15 cm diameter) Flixweed Green smartweed Hemp-nettle Kochia (excluding Gr. 2 resistant biotypes) Lady's-thumb Lamb's-quarters Narrow-leaved hawk's-beard Redroot pigweed Round-leaved mallow¹ Russian thistle, Scentless chamomile¹ Shepherd's purse Sow thistle¹ Stinkweed Stork's-bill¹ (2-6 leaf) Tartary buckwheat Toadflax¹ Volunteer canola (all types) Volunteer sunflower (excluding ExpressSun® sunflowers) Wild buckwheat (up to the 5-leaf stage) Wild mustard	40 ac/jug (12 g/ac Refine® SG herbicide + 190 mL/ac MCPA Ester 600) Add a registered non-ionic surfactant (NIS), such as Agral® 90 or Ag-Surf® at 2 L/1000 L of spray solution (0.2% v/v).	Can be safely applied from the 3-leaf to just before the flag leaf growth stage of the crop.	Canada thistle: Apply when the majority of thistles have emerged and are actively growing. Later emerging thistles will not be controlled.  Dandelion: Optimal control is achieved when dandelions are small and actively growing.  Minimum water volume of 5 gal/ac (50 L/Ha) is recommended.			

<sup>&</sup>lt;sup>1</sup>Suppression





### Reliable control of broadleaf weeds

- One of the most reliable broadleaf products on the market, with activity on weeds like lamb'squarters, chickweed and redroot pigweed
- No recropping restrictions the year after treatment, allowing flexibility in recropping
- Powered by Solumax® soluble granules for effective and consistent weed control, and easier, more consistent sprayer cleanout that reduces risk to subsequently sprayed crops
- Wide window of application and excellent crop safety
- Ocrops: Barley, oats, spring wheat, winter wheat, durum wheat
- Herbicide Group: Group 2
- Active Ingredient(s): Tribenuron-methyl + thifensulfuron-methyl
- Packaging: 8 x 486 g jugs per case (each jug treats 40 acres)
- **©** Crop Rotation:

Rotation Interval	Сгор
2 months	alfalfa, canola, flax, lentils
Following Year	no recropping restrictions

	Weeds Controlled and Application Information						
Crop	Weeds	Rate	Application Timing	Application Information			
Barley, oats, durum wheat, spring wheat, winter wheat, (not underseeded to legumes or grasses)	Ball mustard Canada thistle¹ Chickweed (1-6 leaf) Cleavers¹ (1-3 whorls) Common groundsel Corn spurry Cow cockle Flixweed Green smartweed Hemp-nettle Kochia (excluding Gr. 2 resistant biotypes) Lady's thumb Lamb's-quarters Narrow-leaved hawk's-beard Redroot pigweed Round-leaved mallow¹ Russian thistle Scentless chamomile¹ Shepherd's purse Sow thistle¹ Stinkweed Stork's-bill¹ (2-6 leaf) Tartary buckwheat Toadflax¹ (<15 cm) Volunteer canola (excluding Clearfield® canola) Volunteer sunflower (excluding ExpressSun® sunflowers) Wild buckwheat (up to 5-leaf) Wild mustard	40 ac/jug (12 g/ac)  Add a registered non-ionic surfactant (NIS), such as Agral® 90 or Ag-Surf®, at 2 L/1000 L of spray solution (0.2% v/v).	Can be safely applied from the 2-leaf to the full flag leaf stage of the crop.	For best results, apply to young, actively growing weeds that are less than 10 cm in height or diameter unless otherwise specified. Thorough coverage of target weeds is essential.  Tank-mix Refine® SG herbicide with:  • MCPA LV500 – Amine or Ester, at 0.33 L/ac to 0.45 L/ac  • 2,4-D LV500 – Amine or Ester, at 0.34 L/ac to 0.44 L/ac  Common ragweed: Use a minimum of 0.33 L/ac MCPA LV500 or a minimum of 0.34 L/ac 2,4-D Amine 500 for control.  Wild buckwheat: Under environmental stress, such as dry weather, control may be reduced. Large plants may regrow after treatment.			



### Control of hard-to-kill weeds in blueberries

Crop: Lowbush blueberriesHerbicide Group: Group 2

♠ Active Ingredient(s): Tribenuron-methyl♠ Packaging: 8 x 160 g jugs per case

	Weeds Controlled and Application Information						
Crop	Weeds	Rate	Application Timing	Application Information			
Lowbush blueberries	Bunchberry	16 g/ac	Apply in the spring of the sprout year, when the majority of the emerged bunchberry plant leaves have unfolded to form a 45° angle but no later than when the first white blossoms are visible on the most advanced plants OR, a fall application can be made 1 to 4 weeks after the completion of harvest.	Must be applied with a registered non-ionic surfactant (NIS) such as Agral® 90 at 2 L per 1000 L of spray solution (0.2% v/v). 16-26 gal/ac (150-250 L/Ha) water volume.  Make only one application per crop cycle (2 or 3 years) in the sprout year.			
	Bracken fern Speckled alder Wild rose Yellow loosestrife	Mix 0.25 grams of Spartan® herbicide per litre of water and apply as a spot treatment.	Spot treatment application should be made in mid-summer of the prune or vegetative year of the crop to fully expanded foliage of bracken fern and yellow loosestrife.  Wild rose and speckled alder may also be controlled by early fall applications.  Stunting and	Must be applied with a registered non-ionic surfactant (NIS) such as Agral® 90 at 2 L per 1000 L of spray solution (0.2% v/v). Apply enough spray solution to thoroughly wet weed foliage.			
			reduction of fruit buds may occur if the crop is sprayed directly.				



### Broadleaf weed control for beets

Orop: Sugar beets, garden beets, root chickory (Ontario only)

Herbicide Group: Group 2

Active Ingredient(s): Triflusulfuron-methyl Packaging: 10 x 117 g jugs per case

**©** Crop Rotation:

Crop	Rotation Interval		
Sugar beets	30 days in case of crop failure		
Winter wheat, spring wheat, durum wheat, barley	These crops may be planted the following year after UpBeet® herbicide application		

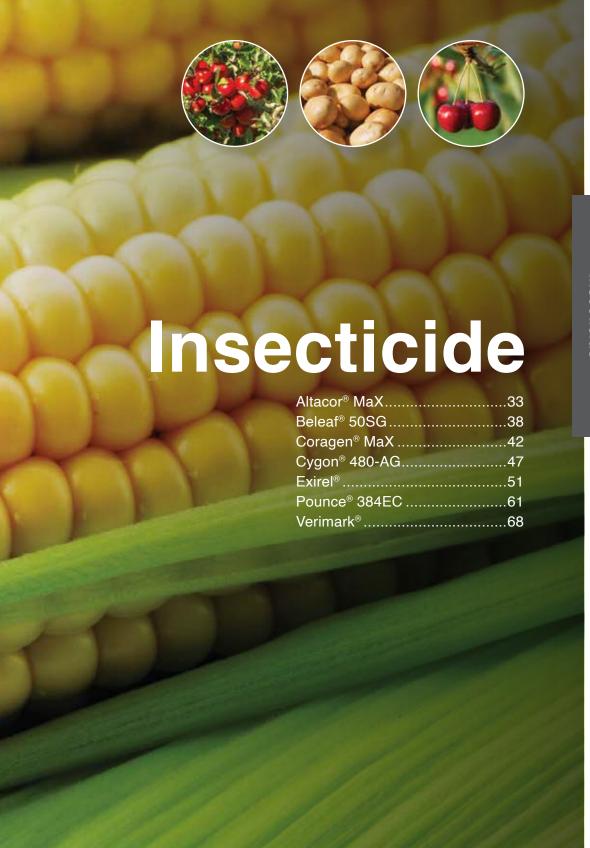
	Weeds Controlled and Application Information							
Crop	Weeds	Rate	Application Timing	Application Information				
Sugar beet	Velvetleaf (2 applications necessary)	14-28 g/ac Add a registered non-ionic surfactant (NIS) at 2.5 L per 1000 L of spray solution. (0.25% v/v)	Apply post- emergent and before the initiation of flowering. Target weeds when they are small.	Maximum seasonal use rates: Sugar beets - 40.5 g/ac Garden beets - 43.7 g/ac Root chickory - 28.3 g/ac Apply in 10-40 gal/ac (100-375 L/Ha)				
	Tankmix of UpBeet® herbicide + Betamix® Green foxtail¹ Kochia² Lamb's-quarters Redroot pigweed Velvetleaf	14-28 g/ac UpBeet® herbicide + 0.7-1.4 L/ac Betamix®	Make 2 applications 5 - 10 days apart or as weeds germinate.	of spray water  For a wider spectrum of weeds, apply a tank-mix of UpBeet® herbicide + Betamix®. No additional adjuvant is required with this mix.				

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<sup>&</sup>lt;sup>2</sup>Rosette stage, <2.5 cm diameter and when preceded by a pre-plant or pre-emergence treatment







# Insecticide

Altacor Wax	აა
Beleaf® 50SG	38
Coragen® MaX	42
Cygon® 480-AG	
Exirel®	51
Pounce® 384EC	61
Verimark®	68



## 2X more concentrated than Altacor® insecticide for insect control in apples, cranberries, grapes and other fruit crops

- Powered by Rynaxypyr® active, a unique mode of action that provides remarkable plant protection
- Consistent residual activity as an ovicide, ovi-larvicide, and larvacide through to adult stages
- Highly concentrated for very low use rates
- Low impact on certain beneficials
- Crops: Caneberries, cranberries, bushberries, grapes, pome fruit, stone fruit, tree nuts
- Insecticide Group: Group 28
- Active Ingredient(s): Chlorantraniliprole
- Packaging: 8 x 510 g jugs per case
- Ne-entry Period: 12 hours

	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI (days)	Application Information Apply in minimum 50 gal/ac (450 L/Ha) spray volume		
Pome Fruits: (Group 11) Apple, crabapple,	Spotted tentiform leafminer Western tentiform leafminer	eafminer Western tentiform	5	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.		
pear, etc.	Oriental fruit moth	30-44 g/ac		Apply at 1 <sup>st</sup> egg hatch of the targeted generation. Monitor populations using pheromone traps and reapply 10 – 14 days later if required.		
	European apple sawfly	30-44 g/ac		Apply at early petal fall, and repeat if needed after petal fall.		
	Green fruitworm	30-44 g/ac		Apply at the pink stage. Repeat if necessary at petal fall.		
	Codling moth	30-44 g/ac		For control of 1 <sup>st</sup> generation apply before first egg hatch (80 – 110 degree days Celsius after biofix). Monitor populations and reapply 10 – 14 days later if required. For 2 <sup>nd</sup> generation timing of the first application is based on first egg hatch after establishing a new biofix. Monitor populations and reapply 10 – 14 days later if required.		
	Three-lined leafroller Eyespotted bud moth Redbanded leafroller Tufted apple bud moth Variegated leafroller	30-58 g/ac		For optimum control of Eyespotted bud moth, Redbanded leafroller, Tufted apple bud moth and Variegated leafroller apply when the larvae are active in the pink to petal fall period.		





Insects Controlled and Application Information				
Crop	Pest	Rate	PHI (days)	Application Information Apply in minimum 50 gal/ac (450 L/Ha) spray volume
Pome Fruits (continued)	Obliquebanded leafroller	30-58 g/ac	5	For over-wintering generations, 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 – 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 the small larvae.
	Apple clearwing moth	moth 58 g/ac		Begin application when treatment thresholds have been reached. Thorough coverage is key for optimum control. Apply specified amount as a spray to wet application to the bottom 60 cm of tree trunk at the first sign of apple clearwing moth feeding. Apply as a summer spray at 25% and 75% egg laying; 200 and 375 DD (10 degrees Celsius base temp) respectively, after first male phermone trap catch (Biofix). Use handgun or backsprayer at high water volumes to ensure thorough coverage of tree trunks and scaffold limbs. Re-apply after 10-14 days if required.
	Apple maggot <sup>1</sup> White apple leaf- hopper <sup>1</sup>	44-58 g/ac		For apple maggot, begin applications when flies are first captured, and repeat 10 – 14 days later. A third application may be made in 10 – 14 days if flies are still being captured.
	Dogwood borer	44-58 g/ac		Apply specified amount as a spray to wet application to the bottom 60 cm of tree trunk, at the first sign of dogwood borer feeding.
	Japanese beetle <sup>1</sup>	58 g/ac		Apply when feeding is first observed and repeat in 10 – 14 days if required.
Grapes	Grape berry moth	30-58 g/ac	14	Begin applications after moth flight begins and prior to egg hatch. Monitor populations and reapply 7 – 10 days later if required.
	Climbing cutworm	44-58 g/ac		Monitor bud development and the presence of cutworm damage. Begin applications when treatment thresholds have been reached. Monitor populations and reapply 7 – 10 days later if required.
	Japanese beetle <sup>1</sup>	58 g/ac		Apply when feeding is first observed and repeat in 10 – 14 days if required.





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI (days)	Application Information Apply in minimum 50 gal/ac (450 L/Ha) spray volume		
Stone Fruits: (Group 12-09) Apricot, cherry, plum, nectarine, peach, prune, chokecherry, etc.	Oriental fruit moth	44-58 g/ac	1	Apply at 1st egg hatch of the targeted generation. Monitor populations using pheromone traps and reapply 7 – 10 days later if required.		
	Peach twig borer	44-58 g/ac		For spring/overwintering or first summer generation larvae: Apply within 7 days of first trap catch of adult male moths. For second summer generation larvae: continue monitoring for second brood moths until at least mid-August. If required, apply a second spray within 7 days of first trap catch of adult male moths.		
	Cherry fruit fly <sup>1</sup>	44-58 g/ac		Apply when flies are first detected in the orchard, and repeat in $10 - 14$ days.		
	Obliquebanded leafroller	30-58 g/ac		For control of over-wintering generations, 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 – 240 degree days Celsius) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be needed.		
	Three-lined leafroller Redbanded leafroller	30-58 g/ac		Apply in the pink to petal fall period.		
	Japanese beetle <sup>1</sup>	58 g/ac		Apply when feeding is first observed and repeat in 10 – 14 days if required.		
	Lesser and greater peach tree borer	44-58 g/ac	1	For optimum control, apply to tree trunks and lower branches using a coarse, low pressure spray. Do not use more than 2,000 L/ha spray volume. Always ensure thorough coverage for optimal results. Apply at egg hatch before larvae enter trunk; do not apply more than once every 10 days. If extended moth flight or egg laying occurs, extended applications may be necessary.		





Insects Controlled and Application Information				
Crop	Pest	Rate	PHI (days)	Application Information Apply in minimum 50 gal/ac (450 L/Ha) spray volume
Tree Nuts: (Group 14-11) Hazelnuts, etc.	Codling moth	30-44 g/ac	10	For control of 1st generation apply before first egg hatch (80-110 degree days Celsius after biofix). Monitor populations and reapply 10 – 14 days later if required. For 2 <sup>nd</sup> generation, timing of the first application is based on first egg hatch after establishing a new biofix. Monitor populations and reapply 10 – 14 days later if required. Begin applications when treatment thresholds have been reached.  Thorough coverage is essential for optimum control.
	Obliquebanded leafroller	30-58 g/ac		For control of over-wintering generations, monitor larval population in the spring, and
	Three-lined leafroller	30-58 g/ac		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 – 240 degree days Celsius) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be needed.  Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.
Low growing berries (Subgroup 13-07G)	Obliquebanded leafroller Three-lined leafroller Climbing cutworm	44-58 g/ac	1	Begin applications when treatment thresholds have been reached. Monitor populations and reapply a minimum of 7 days later if required. Thorough coverage is important to obtain optimum control.
	Japanese beetle <sup>1</sup>	44-58 g/ac		Apply when feeding is first observed and repeat in 10-14 days if required.
Caneberries (Subgroup 13-07A)	Raspberry cane borer Raspberry crown borer	44-58 g/ac	3	Apply to first-instar when insects are actively feeding in the cambium, before they tunnel into the root, crown or canes.
Bushberries (Subgroup 13-07B)	Cranberry fruitworm Cherry fruitworm Obliquebanded leafroller Three-lined leafroller Lesser appleworm Redstriped fireworm Blueberry spanworm Japanese beetle <sup>1</sup>	44-58 g/ac	1	Begin applications when treatment thresholds have been reached. Thorough coverage Is essential for optimal control. Monitor populations and reapply a minimum of 7 days later if required. A single application may not control cherry fruitworm or cranberry fruitworm. Either a second application of Altacor® MaX insecticide, or a subsequent application of a different pest control product registered for this use may be required.





	Insects Controlled and Application Information						
Crop	Pest	Rate	PHI (days)	Application Information Apply in minimum 50 gal/ac (450 L/Ha) spray volume			
Cranberries	Cranberry fruitworm Sparganothis fruitworm Blackheaded fireworm	30-58 g/ac	1	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.			
	Sparganothis fruitworm Blackheaded fireworm	58 g/ac		Chemigation: Apply in a minimum spray volume of 3000 L/Ha. Do not make more than 2 applications per season. Do not exceed a total of 324 grams of Altacor® MaX insecticide per ha per season. The minimum interval between applications is 7 days.			

<sup>1</sup>Suppression





## Aphid control in potatoes and other fruit and vegetable crops

- Unique anti-feeding action. Targets piercing and sucking pests so effectively, that both immature and adult stages begin to stop feeding within 30 minutes of application
- Crops: Potato, strawberry, root vegetables, pome fruit, stone fruit, fruiting vegetables, cole crops / Chinese vegetables, leafy vegetables, alfalfa
- Insecticide Group: Group 29
  Active Ingredient(s): Flonicamid
- Packaging: 6 x 0.68 kg jugs per case
- Re-entry Period: 12 hours



	Insects Controlled and Application Information						
Crop	Pest	Rate	PHI (days)	Application Information			
Brassica Leafy Vegetables (Group 5-13): Broccoli, Brussels sprouts, cabbage, cauliflower, kale, etc. Brassica Leafy Greens (Group 14-3B): Arugula, cabbage, bok choy, collards, kale, watercress, etc.	Aphids	49-65 g/ac	0	Use higher rates for greater pest populations and/or dense foliage. Apply in sufficient water to ensure good coverage; use a minimum of 10 gal/ac (94 L/Ha) when applied by ground. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.  Apply when tarnished plant bugs first appear			
Cucurbit Vegetables	Aphids	49-65 g/ac	in the field and before populati	in the field and before populations reach high levels. Beleat® 50SG insecticide will			
(Group 9): Cucumber, melon, cantaloupe, pumpkin, squash, watermelon, etc.  Fruiting Vegetables (Group 8-09): Bell pepper, eggplant, tomato, okra, etc.	Tarnished plant bug <sup>2</sup>	81 g/ac (3 applications) or 121 g/ac (2 applications)		stop tarnished plant bug feeding rapidly but it may take several days to see a reduction in tarnished plant bug numbers.			
Leafy Vegetables (Group 4): Lettuce, spinach	Aphids	49-65 g/ac					
(Group 4): Lettuce, spinach, arugula, celery, Swiss chard, etc. (Subgroup 22B): Celery, rhubarb, etc.	Tarnished plant bug <sup>2</sup>	81 g/ac (3 applications) or 121 g/ac (2 applications)					



	Insects Cont	rolled and A	Application	Information	
Crop	Pest	Rate	PHI (days)	Application Information	
Sweet Potato Slips (greenhouse)	Thrips, aphids, lygus bugs	30 g/100 L	3	Foliar application. Apply sufficient volume to ensure good coverage, up to 100 gal/ac (1000 L/ha). The maximum volume should be used when plant foliage is dense.  Do not apply more than 2 applications per crop cycle (no more than 1 application per crop cycle may be foliar).	
		30 mg/m2		Apply using drip irrigation or drench by hand using sufficient water volume to ensure delivery of the product to the roots.  Allow a minimum of 7 days between applications. Do not apply more than 2 applications per crop cycle (no more than 1 application per crop cycle may be foliar).	
Stalk and Stem Vegetables: Celtuce, Florence fennel and kohlrabi.	Aphids	49-65 g/ac	0	Use higher rates for greater pest populations and/or dense foliage. Apply in sufficient water to ensure good coverage; use a minimum of 10 gal/ac (94 L/Ha) when applied by ground. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.	
Hops	Aphids	49-65 g/ac	31	Use higher rates for greater pest populations	
Tuberous and Corm Vegetables	Aphids	49-65 g/ac	7	and/or dense foliage. Apply in sufficient water to ensure good coverage; use a minimum of 10 gal/ac (94 L/Ha) when	
(Subgroup 1C): Artichoke, potato, sweet potato, etc.	Psyllid in potato <sup>1</sup>	81 g/ac		applied by ground. Allow a minimum of 7 days between applications.  Do not apply more than 3 applications per year.	
Root Vegetables	Aphids	49-65 g/ac	3		
(subgroup 18): Beet, carrot, ginseng, radish, etc.	Tarnished plant bug <sup>2</sup>	81 g/ac (3 applications) or 121 g/ac (2 applications)		Apply when Tarnished Plant Bugs first appear in the field and before populations reach high levels. Beleaf® 50SG insecticide will stop Tarnished Plant Bug feeding rapidly but it may take several days to see a reduction in numbers. Reapply when new insects are detected.	
Pome Fruit	Aphids	49-65 g/ac	21	Allow a minimum of 7 days between	
(Group 11-09): Apple, pear, etc.	Tarnished plant bug <sup>2</sup>	81 g/ac		applications. Do not apply more than 3 applications per year. Do not allow worker entry for the purposes of performing thinning activities in treated areas during the restricted entry interval of 3 days.	
Stone Fruit	Aphids	49-81 g/ac	14	Allow a minimum of 7 days between applications.	
(Group 12-09): Apricot, cherry, peach, plum, etc.	Tarnished plant bug <sup>2</sup>	81 g/ac		Do not apply more than 3 applications per year. Do not allow worker entry for the purposes of performing thinning activities in treated areas during the restricted entry interval of 3 days.	
Non-grass Animal Feeds	Aphids	49-65 g/ac	7	Apply in sufficient water to ensure good coverage;	
(Group 18): Alfalfa (forage), clover, vetch, etc. Alfalfa (seed*), lupin, trefoil	Tarnished plant bug	81 g/ac (3 applications) or 121 g/ac (2 applications)		use a minimum of 10 gal/ac (100 L/Ha) when applied by ground. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.	

Suppression Suppression or reduction of numbers
 Do not use seed or treated forage for human or animal consumption from treated alfalfa grown for seed production specifically.



	Insects Cont	trolled and A	Application	Information
Crop	Pest	Rate	PHI (days)	Application Information
Mint: Spearmint, peppermint	Aphids	49-65 g/ac	7	Apply in sufficient water to ensure good coverage; use a minimum of 10 gal/ac (94 L/Ha) when applied by ground. Allow a minimum of 14 days between applications.  Do not apply more than 3 applications per year.
Cucumber (greenhouse)	Thrip Aphid Lygus bug Whitefly <sup>1</sup>	30 g/100 L	0	Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 1 foliar application per crop cycle.
		12.5 mg/plant	0	Apply using drip irrigation or drench by hand using sufficient water volume to ensure delivery of the product to the roots.
Peppers (greenhouse)	Thrip Aphid Lygus bug	30 g/100 L	0	Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 1 foliar application per crop cycle.
		30 mg/m <sup>2</sup>	0	Apply using drip irrigation or drench by hand using sufficient water volume to ensure delivery of the product to the roots.
Lettuce (greenhouse)	Aphids	0.14-0.2 g/L	0	Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 1 application per crop cycle.
Tomato (greenhouse)	Whitefly	20 g/100 L	0	Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 2 foliar applications per crop cycle.
Ornamentals (greenhouse)	Thrip Aphid	30 g/100 L	n/a	Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 1 foliar application per crop cycle.
	Whitefly	20 g/100 L		Foliar application. Apply sufficient volume to ensure good coverage, up to 1000 L/Ha. Do not apply more than 2 foliar applications per crop cycle.
	Mealybugs	16 - 30 g/100 L		Treat when insects appear. Apply sufficient volume to ensure good coverage, up to 1000 L/ha. The maximum volume should be used when plant foliage is dense. Do not apply more than 2 applications per crop cycle.
Herbaceous ornamentals only, including cut flowers.	Drench: Thrip Aphid Whitefly Lygus bug	122 g/ac	n/a	Apply using drip irrigation or drench by hand using sufficient water volume to ensure delivery of the product to the roots. Do not apply more than 2 applications per crop cycle.
Strawberry (greenhouse)	Aphids Lygus bugs (including tarnished plant bug)	30 g/100 L	0	Beleaf® 50SG insecticide will stop aphid and lygus bug feeding rapidly but it may take several days to see a reduction in pest numbers. Do not apply more than 1 application per crop cycle. Max spray volume of 650 L



	Insects Cont	rolled and A	Application	Information
Crop	Pest	Rate	PHI (days)	Application Information
Ornamentals (outdoors) (excluding conifers)	Aphids	49-65 g/ac	n/a	Use higher rates for greater pest populations and/or dense foliage. Apply in sufficient water to ensure good coverage; use a minimum of 10 gal/ac (94 L/Ha) when applied by ground. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.
	Mealybugs	16-30 g/100 L	n/a	Foliar application. Treat when insects appear. Do not apply more than 2 applications per year.
	Chilli Thrips (Scirtothrips dorsalis Hood)	30 g/100 L		Do not apply more than 2 applications per year.
Low growing berry (Subgroup 13-07G): Lowbush blueberry, cranberry, strawberry, etc.	Aphids	49-65 g/ac	0	Apply before aphid populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.
	Lygus bugs <sup>2</sup> including Tarnished plant bug	81 g/ac		Apply when lygus bugs first appear in the field and before populations reach high levels. Belear® 50SG insecticide will stop lygus bug feeding rapidly but it may take several days to see a reduction in lygus bug numbers. Reapply when new insects are detected.
	Thrips	81 g/ac (3 applications) or 121 g/ac (2 applications)		Apply when thrips first appear in the field and before populations reach high levels. Beleaf® 50SG insecticide will stop thrips feeding rapidly but it may take several days to see a reduction in thrips numbers. Under heavy infestation, use the higher rate of 121 g/ac. Multiple applications may be required.
Edible-podded legume vegetables (Subgroup 6A), Succulent shelled pea and bean (Subgroup 6B),	Aphids	49-65 g/ac	7	Apply before aphid populations reach economic thresholds, or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary. Use higher rates for greater pest populations and/or dense foliage.
Dried shelled bean except soybean (Subgroup 6C)	Lygus bugs <sup>2</sup> including Tarnished plant bug	81 g/ac		Apply when lygus bugs first appear in the field and before populations reach high levels. Beleaf® 50SG insecticide will stop lygus bug feeding rapidly but it may take several days to see a reduction in lygus bug numbers. Reapply when new insects are detected.
Balsam fir and Fraser fir (including Christmas trees)	Balsam twig aphids (Mindarus abietinus)	49-65 g/ac	n/a	Use higher rates for greater pest populations and/ or dense foliage. Apply after the stem mothers have hatched but before the second generation aphids are present, based on a degree-days model and when insect populations reach intervention thresh- old. Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage; use a minimum of 300 litres per hectare when applied by ground. Finished spray volumes should be increased when plant foliage is dense. Allow a minimum of 7 days between applications. Do not apply more than 2 applications per year.



#### Innovative, targeted insect control you can count on

- Highly concentrated formulation for ease of handling and increased sustainability
- Extended control! Delivers reliable, long-lasting protection against key insect pests
- Active ingredient from a novel group of chemistry with no cross resistance to other chemistries
- Controls hatching insects all the way through to adult stages of development
- Provides reliable control of western bean cutworm.
- Resistance management DO NOT make a foliar application of Coragen® MaX insecticide
  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.
- Coragen® MaX insecticide has minimal impact on many important beneficial insects and pollinators\*, and its unique environmental and toxicological profile make it a sound choice for growers and applicators.
- Crops: Corn (field, sweet, seed and pop), dry beans, brassicas, cereals, cucurbits, fodder, fruiting vegetables, forage grass, green onion, hay, hops, leafy vegetables, legumes, mint, non-grass animal feeds, oilseeds, root vegetables, tuber vegetables, and greenhouse cucumber, eggplant, pepper and tomato
- Insecticide Group: Group 28
- Active Ingredient(s): Chlorantraniliprole
- 🕜 Packaging: 4 x 2 L jugs per case
- Re-entry Period: 12 hours

## Extended control of key insect pests like western bean cutworm



Source: Purdue University, Department of Entomology

## Feeding by western bean cutworm and damage to ears





WBC damage to corn ears in an untreated plot (left), and a plot treated with Coragen® insecticide (right) near Rodney, Ontario (October 3, 2014).

	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI (days)	Application Information		
Corn	Black cutworm	33.5 mL/ac	14 days	Begin applications when treatment thresholds		
(Field, sweet, seed, and pop)	Armyworm Fall armyworm Beet armyworm Variegated cutworm	33.5 - 50.5 mL/ac	1 day (sweet and seed	have been reached. Apply either by ground or aerial application equipment.		
	Corn earworm Tomato fruitworm European corn borer <b>Western bean cutworm</b>		corn)	Time the applications to coincide with peak egg hatch. Scout by monitoring egg laying and egg hatch to determine application timing. Reapply if necessary. Apply either by ground or aerial application equipment.		

<sup>\*</sup>When applied at label rates. In line with Integrated Pest Management and Good Agricultural Practices, insecticide applications should be made when pollinators are not foraging to avoid unnecessary exposure.





	Insects Co	ntrolled and A	Application In	formation
Crop	Pest	Rate	PHI (days)	Application Information
Corn (contd.) (Field, sweet, seed, and pop)	Grasshoppers	17-33.5 mL/ac	14 days (field and pop) 1 day (sweet and seed)	Time the applications to coincide with peak egg hatch. Scout by monitoring egg laying and egg hatch to determine application timing. Reapply if necessary. Apply either by ground
UI aeriai app	or aerial application equipment.  Begin applications when treatment			
Vegetables (Group 6): Dry beans,	Vegetables (Group 6):     Cabbage looper Cutherms     33.5 mL/ac     thresholds have been coverage is importan	thresholds have been reached. Thorough coverage is important to obtain optimum control.		
chickpea, field pea, faba bean, lentil, etc.	Armyworm Fall armyworm Beet armyworm Corn earworm European com borer Western bean cutworm	33.5 - 50.5 mL/ac		control.
Potato	Colorado potato beetle	33.5 - 67.5 mL/ac	1 day	Use the higher application rate under heavy pest pressure and/or when larger larvae are present. Apply by either ground or aerial application equipment. Do not apply Coragen® MaX insecticide for Colorado potato beetle if any Group 28 insecticide was used at planting as an infurrow, soil or seed-piece treatment.
	European corn borer	33.5 - 50.5 mL/ac	1 day	Time application to coincide with peak egg hatch. Scout for European corn borer by monitoring egg laying and egg hatch to determine application timing. Apply by either ground or aerial application equipment.
	Grasshoppers	17-33.5 mL/ac		
Root and Tuber Vegetables (Group 1): Carrot, sugar beet, ginseng, potato, sweet	Diamondback moth Cabbage looper Black cutworm Imported cabbageworm Swede midge	33.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
potato, etc.	Corn earworm European corn borer Tobacco hornworm Tomato hornworm Armyworm Variegated cutworm Fall armyworm Beet armyworm Leafminers: Liriomyza sativae Liriomyza trifolii	33.5 - 50.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.





	Insects Co	ntrolled and A	pplication In	formation
Crop	Pest	Rate	PHI (days)	Application Information
<u>Leafy</u> <u>Vegetables</u>	Cabbage looper Black cutworm	33.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough
(Group 4): Lettuce, spinach, arugula, celery, Swiss chard, etc.	Armyworm Fall armyworm Corn earworm Beet armyworm Leafminers: Liriomyza sativae Liriomyza trifolii	33.5 - 50.5 mL/ac		coverage is important to obtain optimum control.
Brassica Leafy Vegetables (Group 5): Broccoli, Brussels sprouts,	Imported cabbage worm Diamondback moth Cabbage looper Black cutworm Swede midge	33.5 mL/ac	3 days	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. For optimum control, apply Hasten® NT Spray Adjuvant at an
cabbage, cauliflower, kale, etc.	Armyworm Fall armyworm Beet armyworm Corn earworm Leafminers: Liriomyza sativae Liriomyza trifolii	33.5 - 50.5 mL/ac		application rate of 0.25% v/v or MSO Contentrate with Leci-Tech® at an application rate of 0.5% v/v.
Fruiting. Vegetables (Group 8): Egg- plant, pepper, tomato, etc.	Colorado potato beetle Armyworm Fall armyworm Beet armyworm Variegated cutworm Tobacco hornworm Tomato hornworm Tomato fruitworm (Corn earworm) European corn borer	33.5 - 50.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Do not apply Coragen <sup>®</sup> MaX insecticide for Colorado potato beetle if any Group 28 insecticide was used at planting as an infurrow, soil or seed treatment.
	Cabbage looper Black cutworm	33.5 mL/ac		
Cucurbit Vegetables	Cabbage looper Black cutworm	33.5 mL/ac	1 day	
(Group 9): Cucumber, melon, pumpkin, squash, etc.	Armyworm Fall armyworm Corn earworm Leafminers: Liriomyza sativae Liriomyza trifolii	33.5-50.5 mL/ac		
Cereal Grains	Grasshoppers	17-33.5 mL/ac	1 day	Begin applications when treatment
Barley, oats, rye, wheat, etc.	Cutworms	33.5 mL/ac		thresholds have been reached. Thorough coverage is important to obtain optimum
, , , , , , , , , , , , , , , , , , , ,	Armyworm Fall armyworm Beet armyworm Corn earworm European corn borer	33.5 - 50.5 mL/ac		control.





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI (days)	Application Information		
Grass, Forage,	Grasshoppers	17-33.5 mL/ac	0 days	Begin applications when treatment		
Fodder and Hay (Crop Group17)	Armyworm Fall armyworm Beet armyworm Corn earworm	33.5 - 50.5 mL/ac		thresholds have been reached. Thorough coverage is important to obtain optimum control.		
	Cutworms	33.5 mL/ac				
Non-Grass	Beet armyworm	33.5 - 50.5 mL/ac	0 days			
Animal Feeds (Group 18): Alfalfa, clover,	Alfalfa weevil <sup>1</sup>	50.5 - 67.5 mL/ac				
vetch, lupin,	Grasshoppers	17-33.5 mL/ac				
trefoil, etc.	Cutworms	33.5 mL/ac				
<u>Oilseeds</u>	Diamondback moth	17 mL/ac	1 day	Begin applications when treatment		
(Group 20): Canola.	Grasshoppers	17-33.5 mL/ac		thresholds have been reached. Thorough coverage is important to obtain optimum		
sunflower,	Bertha armyworm	17-50.5 mL/ac		control.		
safflower, etc.	Cabbage looper Imported cabbage worm Swede midge Cutworms	33.5 mL/ac				
	Sunflower head moth Reduces damage caused by banded sunflower moth.	33.5 - 50.5 mL/ac				
Mint	Cabbage looper	33.5 mL/ac	3 days			
Okra	Beet armyworm Corn earworm	33.5 - 50.5 mL/ac	1 day			
Hops	Cutworms Armyworm	33.5 - 50.5 mL/ac	0 days			
	Cabbage looper	33.5 mL/ac				
Globe artichoke	Cutworms Armyworm	33.5 - 50.5 mL/ac	3 days	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Do not		
	Cabbage looper	33.5 mL/ac		apply using aerial application equipment.		
Greenhouse Cucumbers, tomato, peppers, and eggplant	Cabbage looper	42 mL/1000 L spray volume	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Repeat applications if monitoring indicates it is necessary.		
	Lepitoptera leafminer (not registered pest on greenhouse cucumbers)	67 mL/1000 L spray volume		Apply at egg hatch. Reapply if monitoring indicates it is necessary. Thorough coverage is important to obtain optimum control.		





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI (days)	Application Information		
Peanuts	Cutworms, Armyworm, Corn Earworm	33.5 - 50.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.		
Green Onions (subgroup 3-07B)	Cutworms Leek moth¹ Leafminers: Liriomyza sativae Liriomyza trifolii	33.5 - 50.5 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.		
Garden and Sugar beet	Beet webworm	33.5 - 50.5 mL/ac	1 day			

Sugar beet		
Suppression		



## Reliable aphid and spider mite control in your soybean crop

- Broad spectrum insecticide for the control of insects on listed vegetable, fruit and field crops
- Crops: Cole crops, leafy vegetable, soybeans, beans, potatoes, pepper, alfalfa, cereals, canola, hazelnut, peaches, apples, eggplant, asparagus, pastures, forage crops, pear, blueberry and strawberry
- Insecticide Group: Group 1B
  Active Ingredient(s): Dimethoate
- Packaging: 2 x 10 L jugs per case
- Re-entry Period: 12 hours (unless otherwise indicated on label)



Two-spotted spider mite



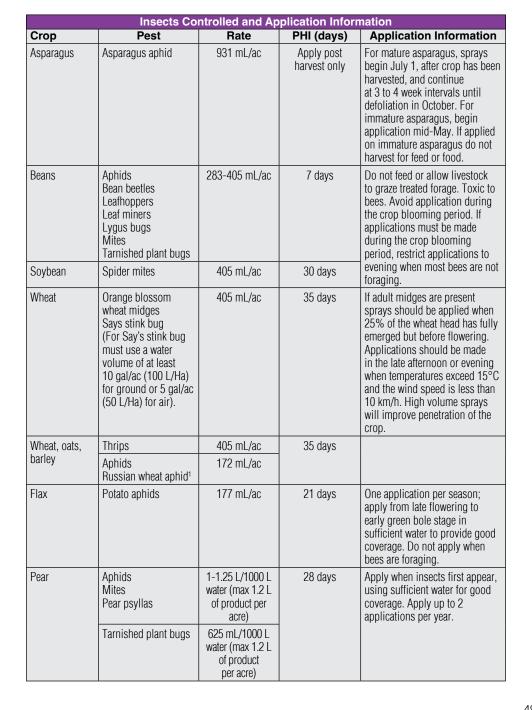
Adult nymph soybean aphid

		ntrolled and Ap		
Crop	Pest	Rate	PHI (days)	Application Information
Cole Crops: Broccoli, Brussels sprouts, cauliflower	Aphids	283-405 mL/ac	7 days (broccoli, cauliflower) 21 days (Brussels sprouts)	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.
Chinese broccoli, pak choi, chicory	Aphids	243-405 mL/ac	7 days	
Leafy Vegetables: Beet greens, turnip greens, kale, lettuce, Swiss chard	Aphids Leafhoppers	283 mL/ac	14 days	
Peppers	Aphids Pepper maggots	283-405 mL/ac	3 days	
Potatoes, tomatoes (field)	Aphids Leafhoppers	223-405 mL/ac	7 days	
Alfalfa	Aphids, Leafhoppers, reduction of alfalfa weevil larvae Lygus bugs	172 mL/ac	2 days	
	Blotch leaf miners	223 mL/ac	2 days	
	Grasshoppers - nymphs	223 mL/ac	28 days	
	Grasshoppers - adults	344-364 mL/ac	28 days	
Alfalfa (seed)	Lygus bugs Plant bugs	445 mL/ac	10 days	



Insects Controlled and Application Information							
Crop	Pest	Rate	PHI (days)	Application Information			
Forage crops (grain)	Lygus bugs Plant bugs	172 mL/ac	2 days	Toxic to bees. Avoid application during the crop blooming period.			
	Grasshoppers – Low infestations	172-223 mL/ac	2 days	If applications must be made during the crop blooming period, restrict applications to evening			
	Grasshoppers- nymphs	223 mL/ac	2 days	when most bees are not foraging.			
	Grasshoppers- adults	344-405 mL/ac	28 days				
Safflower	Grasshoppers (nymphs, adults)	223 - 405 mL/ac	PHI 21 days	Apply when damage is apparent and more than 15 grasshoppers per square metre are found in the crop. Repeat only when necessary. Use sufficient water for good coverage using ground or aerial application.  Toxic to bees. Do not apply during the crop blooming period or during the 5-day period before the crop blooms.			
Sweet clover, red clover, alsike clover	Sweet clover weevils	344-445 mL/ac	28 days				
Pastures	Grasshoppers- nymphs	223 mL/ac	2 days				
	Grasshoppers- adults	344-405 mL/ac	28 days				
Canola	Aphids Leafhoppers Grasshoppers	344-364 mL/ac	21 days	Repeat application only when necessary. Toxic to bees. Do not apply during the crop			
	Lygus bug	182 - 364 mL/ac		blooming period or during the 5-day period before the crop blooms.			
Eggplant	Tarnished plant bug	202-283 mL/ac	7 days	Apply when bugs are found and flowering is seen. Treat again in 7 to 10 days if bugs are found. Do not apply when bees are foraging.			
Peas	Aphids	111-154 mL/ac	3 days	May be applied by air or ground equipment. Do not feed or allow livestock to graze treated vines within 21 days after application. Do not apply when bees are foraging.			







	Insects Controlled and Application Information						
Crop	Pest	Rate	PHI (days)	Application Information			
Lowbush blueberry	Blueberry maggots	235-336 mL/ac	21 days	Apply in sufficient water for good coverage one week after first berries ripen. Do not apply foliar spray when daytime temperatures exceed 25°C. Use no more than 1,000 L spray/Ha. Apply second spray in 10 - 12 days if needed.			
Highbush	Blueberry maggot	336 mL/ac	21 days	Apply post-harvest only, to			
blueberry	Spotted wing drosophila	336 mL/ac	Post-harvest application	control spotted wing drosophila (adults and larvae in fruit) that may otherwise infest adjacent crops. Timing varies, depending on variety of highbush blueberry.			
Peaches	Tarnished plant bug	688 mL/ac	40 day	Spray when insects first			
(non-bearing)	Aphids Mites	1-1.5 L/1000 L water (max 1.2 L of product per acre)		appear and repeat as necessary using sufficient water for good coverage.			
Strawberries (bearing)	Tarnished plant bugs	1.1 L/ac	7 days	Apply first spray when first blooms appear and the second application 10 to 12 days after if needed.			
Strawberries (bearing and non-bearing)	Aphids Mites	911 mL/ac	7 days	Spray when insects first appear and repeat as necessary using sufficient water for good coverage.			
Sweet cherries Sour cherries	Black and Western cherry fruit fly maggots	911 mL/ac	21 days	Apply no later than 6 days after the first adult fly has been trapped. Apply once only.			
Hazelnuts	Aphids	2 L/ac	45 days	One application per season; apply when aphids appear. Primarily for use on young plantings.			
Canary seed	Aphids	202 mL/ac	21 days	Apply when >50 aphids per seed head between heading and soft dough stage. Toxic to bees, avoid application during crop blooming period.			

<sup>&</sup>lt;sup>1</sup>Suppression

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.





### One step closer to a strong crop

- Applied early in the season, Exirel® insecticide provides protection for pome fruit, stone fruit, blueberries and root vegetables during the most critical stages of development
- Designed for superior foliar protection against a cross-spectrum of sucking and chewing pests
- Exirel® insecticide is rapidly absorbed into foliage and provides translaminar and locally systemic movement for rainfast and extended control
- Exirel® insecticide is a highly effective IPM product with excellent crop safety
- Resistance management DO NOT make a foliar application of Exirel® insecticide 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.
- Crops: Brassica vegetables, bulb vegetables, bush berries, caneberries, corm and tuberous vegetables, cucumbers, cucurbits, eggplants, fruiting vegetables, greenhouse tomatoes, leafy vegetables, legumes, low growing berries, peanuts, peppers, pome fruit, root vegetables (except sugar beet), stone fruit, strawberries, tobacco and tree nuts.
- Insecticide Group: Group 28
- Active Ingredient(s): Cyantraniliprole
- Packaging: 4 x 3.79 L jugs per case
- Re-entry Period: 12 hours

	Insects Con	trolled and A	pplication	on Information
Crop	Pest	Rate	PHI	Application Information
Tuberous and Corm Vegetables	Colorado potato beetle	304-405 mL/ac	7 days	Begin applications when treatment thresholds have been reached.
(Sub-group 1C): Artichoke, potato, sweet potato, etc.	Cabbage looper	101-202 mL/ac	at an applic	Aphids: Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% y/v or MSO Concentrate with Leci-Tech® at an applica-
·	Armyworm Beet armyworm	202 mL/ac		tion rate of 0.5% v/v.
	Fall armyworm	armyworm   Colorado pot	<b>Colorado potato beetle:</b> Use the higher application rate when larger larvae are	
	Variegated cutworm European corn borer	202-304 mL/ac		present.
				Resistance management: DO NOT apply for Colorado potato beetle control if any Group 28 insecticide was used at planting as an
	Corn earworm	304 mL/ac		in-furrow, soil or seedpiece treatment.
	Tobacco hornworm <sup>1</sup> Tomato hornworm <sup>1</sup>			European corn borer: Time application to coincide with peak egg hatch. Scout by monitoring egg laying and egg hatch to determine application timing.
	Flea beetles	202-405 mL/ac		approactor tilling.
	Aphids	202-607 mL/ac		

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.





	Insects Con	trolled and A	pplicati	on Information
Crop	Pest	Rate	PHI	Application Information
Root Vegetables (except sugar beet)	Cabbage looper Armyworm	101-202 mL/ac 202 mL/ac	7 days	Begin applications when treatment thresholds have been reached.
(Sub-group 1B): Carrot, ginseng, potato, sweet potato,	Beet armyworm Fall armyworm			Aphids: Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate
etc.	Variegated cutworm European corn borer	202-304 mL/ac		with Leci-Tech® at an application rate of 0.5% v/v. <b>Carrot weevil:</b> Begin applications at the 2-3 leaf stage or when scouting indicates the presence of
	Corn earworm	304 mL/ac		weevils.
	Flea beetle	202-405 mL/ac		Colorado potato beetle: Use the higher applica-
	Aphids	202-607 mL/ac		tion rate with larger larvae are present.
	Carrot weevil	405 - 607 mL/ac	1 day	European corn borer: Time the application to coincide with peak egg hatch.
				Use sufficient water volume to ensure thorough coverage. Recommended minimum water volume of 200 L/Ha for control of carrot weevil. Use the higher rate and a higher water volume when pest pressure is high.
Bulb Vegetables: (Sub-group 3-07) Garlic, onion, leek, etc.	Thrips <sup>1</sup> Allium leafminer	405-607 mL/ac	1 day	Thorough coverage is essential for optimum control. Use sufficient water to obtain thorough, uniform coverage. For optimum control, apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an application rate of 0.5% v/v.
				<b>Thrips:</b> Begin applications when thrips populations are low. If populations are high, use a registered insecticide with a different mode of action to reduce thrips populations before applying Exirel® insecticide.
				Allium leafminer: Begin applications when treatment thresholds have been reached. Use the high rate under heavy pest pressure.
Leafy Vegetables	Cabbage looper	101-202 mL/ac	1 day	Begin applications when treatment
(Group 4): Lettuce, spinach, arugula, celery, Swiss chard,	Armyworm Beet armyworm Fall armyworm	202 mL/ac		thresholds have been reached. <b>Cutworm:</b> Apply to foliage when rain is not expected in the next 24 hours. Apply to smaller
cilantro (fresh leaves), etc.	Corn earworm	304 mL/ac		plants or when lower portions of plant can
	Dipteran leafminers (larvae)	405-607 mL/ac		receive adequate coverage. <b>Aphids:</b> Apply Hasten® NT Spray Adjuvant
	Flea beetles	202-405 mL/ac		at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an application
	Cutworms	202-304 mL/ac		rate of 0.5% v/v.
	Aphids	202-607 mL/ac		





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI	Application Information		
<u>Leafy Vegetables</u> Parsley, celery	Carrot Weevil	405-607 mL/ac	1 day	Carrot Weevil: Begin applications when scouting indicates that treatment thresholds have been reached.  Consult local agricultural authorities to determine appropriate threshold levels for carrot weevil in your area.		
				Use sufficient water volume to ensure thorough coverage. Use the higher rate and a higher water volume when pest pressure is high.		
Brassica Vegetables (Group 5): Broccoli, Brussels sprouts,	Cabbage looper Imported cabbageworm	101-202 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.		
cabbage, cauliflower, kale, etc.	Diamondback moth			<b>Cutworm:</b> Apply to foliage when rain is not expected in the next 24 hours. Apply to		
	Beet armyworm Fall armyworm	202 mL/ac		smaller plants or when lower portions of plant can receive adequate coverage.		
	Dipteran leafminers (larvae)	405-607 mL/ac		Aphids: Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an applica-		
	Flea beetles	202-405 mL/ac		tion rate of 0.5% v/v.		
	Corn earworm	304 mL/ac		Thrips: If populations are high, use a		
	Sweet midge Cutworms	202-304 mL/ac		registered insecticide with a different mode of action to reduce thrips populations before applying Exire <sup>(®)</sup> insecticide.		
	Aphids	202-607 mL/ac		Thorough coverage is important to obtain		
	Thrips <sup>1</sup>	405-607 mL/ac		optimum control.		
				For optimum control, apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an application rate of 0.5% v/v.		







	Insects Con	trolled and A	pplicati	on Information
Crop	Pest	Rate	PHI	Application Information
Fruiting Vegetables	Cabbage looper	101-202 mL/ac	1 day	Begin applications when treatment thresholds have been reached.
(except cucurbits) (Group 8-09): Bell pepper, eggplant, tomato, okra, etc.	Armyworm Beet armyworm Fall armyworm	202 mL/ac		Cutworm: Apply to foliage when rain is not expected in the next 24 hours. Apply to smaller plants or when lower portions of
	Tomato fruitworm (corn earworm) Tobacco hornworm <sup>1</sup> Tomato hornworm <sup>1</sup>	304 mL/ac		plant can receive adequate coverage. <b>Aphids:</b> Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an application rate of 0.5% v/v.
	European corn borer Cutworms	202-304 mL/ac		<b>Pepper Maggot:</b> Must be controlled at the adult life stage. Control may not be possible once oviposition has occurred.
	Flea beetles	202-405 mL/ac		Colorado potato beetle resistance management: DO NOT apply Exirel® insecticide
	Colorado potato beetle	304-405 mL/ac		for Colorado potato beetle control if any Group 28 insecticide was used at planting as
	Aphids	202-607 mL/ac		an in-furrow, soil or seed treatment.
	Pepper maggot Pepper weevil <sup>1</sup>	405-607 mL/ac		
<u>Cucurbit Vegetables</u>	Cabbage looper	101-202 mL/ac	1 day	Begin applications when treatment
(Group 9): Cucumber, melon, cantaloupe, pumpkin,	Armyworm Fall armyworm	202 mL/ac		thresholds have been reached.  Cutworm: Apply to foliage when rain is
squash, watermelon,	Cutworms	202-304 mL/ac		not expected in the next 24 hours. Apply to smaller plants or when lower portions of
etc.	Corn earworm	304 mL/ac		plant can receive adequate coverage.
	Aphids	202-607 mL/ac		<b>Aphids:</b> Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO
	Dipteran leafmin- ers (larvae)	304-405 mL/ac		Concentrate with Leci-Tech® at an application rate of 0.5% v/v.
	Flea beetles	202-405 mL/ac		
Legume Vegetables	Cabbage looper	101-202 mL/ac	7 days	Begin applications when treatment thresholds have been reached.
(Group 6): Beans, chickpea, peas, lentil, soybean, etc.	Armyworm Beet armyworm Fall armyworm	202 mL/ac		<b>Cutworm:</b> Apply to foliage when rain is not expected in the next 24 hours. Apply to
	Cutworms European corn borer	202-304 mL/ac		smaller plants or when lower portions of plant can receive adequate coverage.  Aphids: Apply Hasten® NT Spray Adjuvant
	Soybean aphid	304-607 mL/ac		at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an applica-
	Bean leaf beetle <sup>1</sup>	405-607 mL/ac		tion rate of 0.5% v/v.





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI	Application Information		
Pome Fruits: (Group 11-09)	Codling moth Oriental fruit moth	202-304 mL/ac	3 days	Begin applications when treatment thresholds have been reached.		
Àpple, crabapple, pear, etc.	Spotted tentiform leafminer Western tentiform leafminer			1st generation codling moth: Apply before first egg hatch (80 - 110 degree days Celsius after biofix). Monitor populations and reapply 10 - 14 days later if required. For 2nd generation codling moth, timing of the first application is		
	Obliquebanded leafroller Threelined	202-405 mL/ac	3 days	based on first egg hatch after establishing a new biofix. Monitor populations and reapply 10 - 14 days later if required.		
	leafroller Fruittree leafroller European leafroller Eyespotted bud moth Tufted apple bud moth European sawfly			Oriental fruit moth: Apply at 1st egg hatch of the targeted generation. Monitor populations using pheromone traps and reapply 10 - 14 days later if required.		
				Oblique banded leafroller: Monitor larval population in the spring, and apply when over-wintering larvae become active, from pink stage through petal fall. For summer genera-		
	Green peach aphid Rosy apple aphid Apple leafhopper	304-607 mL/ac		tions, monitor adult moth flight, and apply at first egg hatch (170 - 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 the small larvae.		
	Apple maggot Plum curculio Japanese beetle	405-607 mL/ac		Apple maggot: Apply 7-10 days after the first apple maggot fly is caught on the traps in orchard. Repeat in 10 -14 days if populations warrant.		
				Plum curculio: Monitor trees along the edge of the orchard for the first sign of feeding damage after bloom. Repeat after 10 - 14 days if population warrants.		
				Japanese beetle: Monitor adult populations and insect damage. Follow provincial guidelines for treatment thresholds.		





	Insects Con	trolled and A	pplication	on Information
Crop	Pest	Rate	PHI	Application Information
Stone Fruit:	Oriental fruit moth	202-304 mL/ac	3 days	Begin applications when treatment thresholds
(Group 12-09) Apricot, cherry, plum, nectarine, peach, prune	Obliquebanded leafroller Threelined leafroller Fruittree leafroller European leafroller Eyespotted bud moth	202-405 mL/ac		have been reached. <b>Obliquebanded leafroller:</b> 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 – 240 Celsius degree days) after the first sustained moth catch. A repeat application approximately 10 days after the initial application may be
	Green peach aphid Plum aphid Cherry fruit fly Western cherry fruit fly	304-607 mL/ac		needed to control the extended emergence of the small larvae.  Green peach aphid, plum aphid, cherry fruit fly, western cherry fruit fly, and spotted wing drosophila:  Tank-mix Exirel® insecticide with
	Plum curculio Japanese beetle Spotted wing drosophila Peach twig borer	405-607 mL/ac 304-405 mL/ac		Xiameter® OFX-0309 Fluid at 0.03 % v/v. It is recommended that a small area be tested to demonstrate safety to fruit and leaves before using in large areas. Do not tank-mix Exirel® insecticide with any surfactant except as directed
	reach (why bore)	304-403 IIIL/dc		on its label. <b>Plum curculio:</b> Monitor trees along the edge of the orchard for the first sign of feeding damage after bloom. Repeat 10 – 14 days if populations warrant.
				Peach twig borer: Use pheromone traps to monitor the male moth activity. Follow local recommendations for thresholds information. For spring/overwintering or first summer generation larvae: Apply within 7 days of first trap catch of adult male moths. For second summer generation larvae: continue monitoring for second brood moths until at least mid-August. If required, apply a second spray within 7 days of first trap catch of adult male moths.
				Spotted wing drosophila: Begin applications when populations are low. Exirel® insecticide targets the adult life stage of spotted wing drosophila. If populations are high, use a registered insecticide with a different of mode of action to reduce the pest populations. Apply a subsequent application of Exirel® insecticide if required.





	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI	Application Information		
Bushberries (Subgroup 13-07B):	Blueberry gall midge	304-405 mL/ac	3 days	Begin applications when treatment thresholds have been reached.		
Blueberry (low and high bush), currant, highbush cranberry, etc.	Blueberry maggot¹ Plum curculio Japanese beetle Spotted wing drosophila Black vine weevil adults Clay coloured weevil adults	405-607 mL/ac		Blueberry aphid, spotted wing drosophila, blueberry maggot, and blueberry gall midge: Tank-mix Exirel® insecticide with an MSO surfactant at 0.5 - 1.0% v/v. It is recommended that a small area be tested to demonstrate safety to fruit and leaves before using in large areas. Do not tank-mix Exirel® insecticide with any surfactant except as directed on its label.  Blueberry maggot: Begin applications when		
	Flea beetles Cranberry fruitworm Obliquebanded leafroller Threelined leafroller Fruittree leafroller European leafroller Eyespotted bud moth	202-405 mL/ac	popu popu inser redu Exire <b>Spo</b> appl inser If Sp use a	populations are low. If blueberry maggot populations are high, use a registered insecticide with a different mode of action to reduce the pest populations before applying Exirel® insecticide.		
				Spotted wing drosophila: Begin applications when populations are low. Exirel® insecticide targets the adult life stage.  If Spotted wing drosophila populations are high, use a registered insecticide with a different mode of action to reduce the pest populations. Apply a subsequent application of Exirel® insecticide		
	Blueberry aphid	304-607 mL/ac		if required.		
Low growing berries (Subgroup 13-07H): (except strawberry): Lowbush blueberry, cranberry, etc.	Cranberry fruitworm Black headed fire worm Sparganothis fruitworm	304-607 mL/ac	14 days	Begin applications when treatment thresholds have been reached.		
Cranberry	Cranberry Weevil (Anthonomus musculus)	304-607 mL/ac	14 days	Begin applications when scouting indicates the presence of cranberry weevils. Consult local agricultural authorities to determine appropriate threshold levels in your area.		
				Use sufficient water volume to ensure thorough coverage. Recommended minimum water volume of 200L/ha. Use the high rate and a higher water volume when high pest pressure.		





	Insects Controlled and Application Information											
Crop	Pest	Rate	PHI	Application Information								
Strawberries	Aphids	202-607 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.								
	Thrips¹ Spotted wing drosophila Japanese beetle Black vine weevil	405-607 mL/ac		For optimum control apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech® at an application rate of 0.5% v/v.								
												If thrips populations are high, use a registered insecticide with a different mode of action to reduce thrips populations before applying Exirel® insecticide.
				For spotted wing drosophila begin applications when populations are low. Exirel® insecticide targets the adult life stage of Spotted wing drosophila. If Spotted wing drosophila populations are high, use a registered insecticide with a different mode of action to reduce the pest populations. Apply a subsequent application of Exirel® insecticide if required.								
				Japanese beetle: Monitor adult populations and insect damage. Follow provincial guidelines for treatment thresholds.								







	Insects Con	trolled and A	pplicati	on Information
Crop	Pest	Rate	PHI	Application Information
Tree Nuts (Group 14-11):	Codling moth Oriental fruit moth	202-304 mL/ac	5 days	Begin applications when treatment thresholds have been reached.
Hazelnut etc.	Obliquebanded leafroller Threelined leafroller Fruittree leafroller European leafroller Eyespotted bud	202-405 mL/ac		1st generation codling moth: Apply before first egg hatch (80 – 110 degree days Celsius after biofix). Monitor populations and reapply 10 – 14 days later if required. For 2nd generation codling moth, timing of the first application is based on first egg hatch after establishing a new biofix. Monitor populations and reapply 10 – 14 days later if required.  Oriental fruit moth: Apply at 1st egg
	Peach twig borer	moth  Peach twig borer 304-405 mL/ac		hatch of the targeted generation. Monitor populations using pheromone traps and reapply 7–10 days later if required.
				Oblique banded leafroller: 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 – 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 the small larvae.
				Peach twig borer: Use pheromone traps to monitor the male moth activity. Follow local recommendations for thresholds information. For spring/overwintering or first summer generation larvae: Apply within 7 days of first trap catch of adult male moths. For second summer generation larvae: continue monitoring for second brood moths until at least mid-August. If required, apply a second spray within 7 days of first trap catch of adult male moths.
Peanuts	Armyworm Fall armyworm	202 mL/ac	14 days	Begin applications when treatment thresholds have been reached. Thorough coverage is
	Cutworms	202-304 mL/ac		essential for optimum control. Use the high rate under heavy pest pressure.
	Corn earworm	304 mL/ac		
Tobacco	Tobacco hornworm <sup>1</sup> Tomato hornworm <sup>1</sup>	304 mL/ac	7 days	Begin applications when treatment thresholds have been reached.
	Flea beetle	202-405 mL/ac		





	Insects Con	trolled and A	pplication	on Information
Crop	Pest	Rate	PHI	Application Information
<u>Greenhouse:</u> Cucumbers, pepper, tomato, eggplant	Cabbage looper	101 mL/ac	0 days	Begin applications when treatment
	Thrips <sup>1</sup>	202-405 mL/ac	(cucum- ber)	thresholds have been reached. Thorough coverage is required to obtain optimum
	Whiteflies	304-405 mL/ac	1 day (peppers, eggplant, tomato)	control. Select a spray volume appropriate for the size of plants and density of foliage. Use the higher listed rate and higher spray volumes for large plants or dense foliage. Repeat applications if monitoring indicates it is necessary.
				Thrips and whiteflies: Apply Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech®* at an application rate of 0.5% v/v. If thrips populations are above threshold, use a registered knockdown product before applying Exirel® insecticide.
Greenhouse pepper	Pepper maggot Pepper weevil <sup>1</sup>	404-607 mL/ac	1 day	<b>Pepper maggot:</b> Must be controlled at the adult life stage. Control may not be possible once oviposition has occurred.
Caneberry (Subgroup 13-07A): Blackberry, raspberry,	Black vine weevil adults Obscure root weevil adults Spotted wing drosophila Japanese beetle	404-607 mL/ac	1 day	Begin applications when treatment thresholds have been reached. Thorough coverage is essential for optimum control.
etc.				<b>Obscure root weevil:</b> Begin applications when adults are observed.
				<b>Black vine:</b> Apply when most of adults have emerged but before they begin to lay eggs (early summer).
				Spotted wing drosophila: Begin applications when populations are low. If spotted wing drosophila populations are high, use a registered insecticide with a different mode of action to reduce thrips populations before applying Exirel® insecticide.
				Spotted wing drosophila, black vine weevil and obscure root weevil: Tank-mix Exirel® insecticide with Hasten® NT Spray Adjuvant at an application rate of 0.25% v/v.

<sup>&</sup>lt;sup>1</sup>Suppression



# High performing, broad spectrum insecticide for horticultural and row crops

• Stable in sunlight resulting in longer control versus other pyrethroids

Crops\*: Apples, asparagus, barley, beets, blueberry, canola, carrot, cereals, cole crops, corn (field and sweet), cucumbers, flax, ginseng, grapes, horseradish, lentils, lettuce, mushrooms, nectarines, onions, ornamentals, pak-choi, peaches, pears, peas, peppers, plums, potatoes, radishes, snap peas, sugar beets, sunflowers, tobacco, tomatoes, turnips \*Do not apply during crop blooming period

Insecticide Group: Group 3
Active Ingredient(s): Permethrin
Packaging: 12 x 1 L jugs per case

Re-entry Period: 12 hours

	Insects Cont	trolled a	nd Application I	nformation
Crop	Pest	Rate	PHI	Application Information
Asparagus, beets, canola, carrots, cereals, (wheat, barley, oats, rye) cole crops, corn (excluding sweet corn), flax, lentils, lettuce, onions, peas, peppers, potatoes, sugar beets, sunflower	Cutworms: Army, Black, Dark-sided, Pale Western, Red-backed, White	73-158 mL/ac	Beets, carrots, sugar beets, and asparagus: 2 days Cabbage, cauliflower, Brussels sprouts: 3 days Lettuce, onions, peppers, potatoes: 1 day Corn: 30 days Canola, flax, sunflower: NA (application staging is up to 5 leaf) Cereals, broccoli, lentils, peas: 7 days	Ground application: To control these insects attacking seedlings (up to 5 leaves) and/or transplants of these crops, apply 73 mL/ac in sufficient water for good coverage. Under dry soil conditions, or on muck soil, or where cutworms are near full maturity (2.5 - 4 cm) apply 119-156 mL/ac. Applications should be made under warm, moist conditions in the evening or at night when cutworm activity is highest.
	Pale Western cutworm	73-158 mL/ac		Aerial application: To control this insect attacking seedlings; specifically crops up to 5 leaves, apply 73 mL/ac in sufficient water for good coverage. Under dry soil conditions or where cutworms are near full maturity (2.5 to 4 cm) use 119-156 mL/ac. Can only be applied by air once per season.
Asparagus	Cutworms	73 mL/ac	2 days	To control cutworms during the cutting season, make 1 broadcast application by ground to bare soil after cutting when damage is first noticed.



	Insects Cont	trolled a	nd Application I	nformation
Crop	Pest	Rate	PHI	Application Information
Canola	Crucifer flea beetle Striped flea beetle	36-73 mL/ac	NA (application staging is up to 5 leaf)	Ground application: Apply in sufficient water for good coverage when insects are present. Application should be made when the beetles are actively feeding. For severe infestations, use 73 mL/ac (180 mL/Ha).  Aerial application: Apply in 1- 4 gal/ac (11-35 L/Ha) spray water. Can only be applied by air once per season.
Cabbage, cauliflower, broccoli, Brussels sprouts	Cabbage looper Imported cabbage worm Diamondback moth (larvae) Crucifer flea beetle	36-73 mL/ac	Cabbage, cauliflower, Brussels sprouts: 3 days Broccoli: 7 days	Ground application: Apply in 40-70 gal/ac (400-650 L/Ha) spray water on a 7-10 day schedule when insects or insect damage first appears. For severe infestations, use 73 mL/ac. Add Agral® 90 wetting agent at 300 mL per 1000 L of water to improve wetting and coverage. Do not apply by air.
Sweet corn	European corn borer Corn earworm Fall armyworm	111-152 mL/ac 73 mL/ac	1 day	Ground application: Apply specified dosage in 35-50 gal of water/ac (325-450 L/Ha). Use the higher rate when severe insect pressure is anticipated. Spray when first feeding is observed. For second brood borers in plantings, apply before tassels show. For control of corn earworm, direct the spray to ensure coverage of ears and silks.
				Aerial application: Application by air is permitted. Apply specified rate in 1-4 gal/ac (11-35 L/Ha) spray water. Do not apply more than twice per year by air.
Greenhouse: Tomato, cucumber	Whitefly	260 mL/ 1000 L	1 day	Apply to thoroughly cover all foliage. Repeat as necessary. Do not allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.
Ginseng	Cutworms: Army, Black, Pale Western, Red-backed, White, Variegated	73-158 mL/ac	40 days	Ground application: Apply in sufficient water to give thorough coverage of the plants. Use the higher rate if the infestation is heavy; maximum of two applications per year. Apply when scouting indicates presence of cutworms. Under dry soil conditions or where cutworms are near full maturity (2.5 to 4 cm) use 119-158 mL/ac.
	Four-lined plant bug	73-105 mL/ac		<b>Ground application:</b> Apply a maximum of 2 applications per year.



	Insects Cont	rolled a	nd Applicatior	n Information
Crop	Pest	Rate	PHI	Application Information
Pak-choi, Chinese cabbage	Cabbage looper Imported cabbage worm Diamondback moth (larvae)	73 mL/ac	3 days	<b>Ground application:</b> Apply in 40-70 gal/ac (400-675 L/Ha) spray water on a 7-10 day schedule when insects or insect damage first appears. Add Agral® 90 wetting agent at 300 mL per 1000 L of water to improve wetting and coverage.
Chinese broccoli	Cabbage looper Imported cabbage worm Diamondback moth (larvae)	36-73 mL/ac	7 days	<b>Ground application:</b> Apply in 40-70 gal/ac (400-675 L/Ha) spray water on a 7-10 day schedule when insects or insect damage first appears. Add Agral® 90 wetting agent at 300 mL per 1000 L of water to improve wetting and coverage.
Peppers	European corn borer	73 mL/ac	1 day	<b>Ground application:</b> Apply when borer is first observed between end of July to mid-September. Repeat every 7 days.
Potato	Colorado potato beetle Potato flea beetle	73-105 mL/ac	1 day	Ground application: Apply in sufficient water for thorough coverage. Use the higher rate for heavy infestations. Repeat as necessary.
	Potato leafhopper Tarnished plant bug			Aerial application: Application by air is permitted, provided there is no hazard of drift to other crops or to areas occupied by people or livestock. Apply specified rate in 11-35 L water/hectare. Can be applied by air once per season.
	Variegated 73 cutworm mL/ac			<b>Ground application:</b> Apply when insects or damage appears - usually late July or during August, depending on location. Good control is dependent on spray penetration of dense foliage.
	European corn borer	73 mL/ac		<b>Ground applicati on:</b> Apply in sufficient water for good coverage. Apply when egg masses begin to hatch.
				Aerial application: Application by air is permitted. Apply specified rate in 1-4 gal/ac (11-35 L/Ha) spray water. Can only be applied by air once per season.



	Insects Cont	trolled a	nd Application I	Information	
Crop	Pest	Rate	PHI	Application Information	
Radish, horseradish, turnip	Crucifer flea beetle	73 mL/ac	2 days (1 day in turnip)	<b>Ground application:</b> Apply when insects or insect damage appears. Repeat if required.	
Snap beans	European corn borer	105 mL/ac	7 days	<b>Ground application:</b> Apply at the first sign of infestation. Repeat if necessary.	
				Aerial application: Apply in 2-5 gal/ac (20-45 L/Ha) at the first sign of infestation. Can be applied by air twice per season.	
Tobacco (field)	Darksided	71-142	55 days	Do not apply by air.	
	cutworm White cut- worm	mL/ac	IIIL/aC		Ground application: Apply in 20-50 gal/ac (220-450 L/Ha) spray water using nozzle pressure of 71 ml/ac (175-350 kPa.) Cutworm activity is greatest during the late evening and night. Application should be timed as close as possible to insect feeding activity.
				Cover crop treatment: Apply 71 mL/ac once to a rye or wheat cover crop when the crop is 10–15 cm high, 4 to 5 days before ploughdown. Application should also be made to fence rows and a 15 m strip into nearby cover crop. Cover crops treated should not be used as a green feed for animals.	
				Soil treatment: Apply 71-142 mL/ac once 5 days before transplanting. Use the higher rate when the top 1 cm or more of soil is dry. Do not incorporate. Application should also be made to fence rows and a 15 m strip into nearby cover crop. Do not disturb the soil surface for at least 5 days after treatment.	
				Post transplanting treatment: Apply 71 mL/ac once to transplants immediately prior to anticipated cutworm feeding damage. Under conditions of severe insect pressure, applications should also be made to fence rows and a 15 m strip into nearby cover crops.	



	Insects Controlled and Application Information					
Crop	Pest	Rate	PHI	Application Information		
Tomato (field)	Colorado potato beetle Potato flea beetle Tomato hornworm Variegated (climbing) cutworm	73-105 mL/ac	1 day	<b>Ground application:</b> Apply in sufficient water to give thorough coverage. Do not apply by air.		
	Tomato fruitworm (Corn earworm)	105 mL/ac		Ground application: Apply using the higher rate for heavy infestations. NOTE: Tomato fruitworm that has entered the fruit will not be controlled. Repeat above sprays as needed.		
For the fruit crops list with concentrate spra		000 L is for	use as a dilute fo	liar spray. Millilitres per acre is for use		
Apple	Winter moth Eastern tent caterpillar Eyespotted bud moth  Tentiform leafminer Green fruitworm Apple maggot Codling moth Leafrollers Tarnished plant bug Mullein plant bug Lesser appleworm	105-210 mL/ac (90-175 mL/ 1000 L) 210 mL/ac (175 mL/ 1000 L)	7 days	Apple bark border and Dogwood border: Mix 22 mL in 100 L of water with 2 L of Superior Oil. When monitoring indicates adults are active (late June to early August) apply to apple trunks as drench spray to runoff using a knapsack, handgun, or airblast sprayer. A second application may be applied 14 days later.		
	Apple bark borer Dogwood borer	mix 22mL in 100L of water with 2L of superior oil				
	Plum curculio White apple Leafhopper	145-210 mL/ac (125- 175 mL/ 1000 L)				



	Insects Con	trolled a	nd Application I	nformation
Crop	Pest	Rate	PHI	Application Information
Blueberries (vegetative year only)	Thrips	73 mL/ac	N/A (vegetative year)	Make one application between mid- May and early June when plants are 1-2 cm tall.
Pear (Eastern Canada only)	Pear psylla (adults & nymphs) Codling moth Green fruitworm	210 mL/ ac (175 mL/ 1000 L)	7 days	
Pear (British Columbia)	Pre-bloom pear psylla (over- wintering adults) Codling moth	210 mL/ac (175/ 1000 L)	7 days	Pre-bloom pear psylla (over-wintering adults): Apply up to 1 cm green stage of pear foliage growth.
	Post-bloom pear psylla	210-405 mL/ac (175-350 mL/ 1000 L)	7-14 days	Do not apply less than 7 days before harvest at the 210 mL/ac (175 mL/1000 L) rate and less than 14 days before harvest at rates greater than 210 mL/ac (175 mL/1000 L).
Peaches, nectarines	Oriental fruit moth	111-210 mL/ac (90-175 mL/ 1000 L)	7 days	
	Plum curculio Plant bugs	210 mL/ac (175 mL/ 1000 L)		
Plums	Plum curculio	210 mL/ac (175 mL/ 1000 L)		
Grapes	Grape berry moth	146 mL/ac (175 mL/ 1000 L)	21 days	Climbing cutworm: Apply in 50 gal/ac (450 L/Ha) spray water. Maximum 2 applications per year, 7-10 days apart. Apply at the first sign of cutworm
	Grape leafhopper	71 mL/ac (90 mL/ 1000 L)		damage in the spring. Apply spray mixture to the trunk and soil surface within a radius of 0.5 m of the trunk base in the evening. Use low rate for
	Climbing 73-146 cutworm mL/ac			small cutworms and high rate for larger cutworms (2-3 cm). Do not disturb soil for 5 days after application.



	Insects Controlled and Application Information						
Crop	Pest	Rate	PHI	Application Information			
Mushroom (mushroom house and adjacent premise areas)	Mushroom flies - Sciarid and Phorid adults	65-85 mL per L water per 1000 m <sup>3</sup>	1 day	Do not apply more than two applications between each break. Maximum of 20 applications per crop cycle (including breaks). Do not apply more than 63 applications in a year. Do not exceed 5.42 mL/m3 per year. Do not apply more than once daily. Refer to product label for specific use directions.			
Peanuts	Potato leafhopper	73 mL/ac	14 days	Ground Application: Apply in sufficient water for thorough coverage when infestation exceeds 2 leafhoppers per plant. Do not apply using aerial application equipment.			



### The right start for a strong finish

- Delivers fast root uptake to help protect the root system from early season pest damage
- Excellent cross-spectrum insect control of both sucking and chewing pests
- Verimark® insecticide is a highly effective IPM product that will help manage resistance
- Resistance Management DO NOT make a foliar application of any Group 28 insecticide for a minimum of 60 days following an in-furrow or soil application of Verimark® insecticide.
- Crops: Potatoes, brassica vegetables, root vegetables
- Insecticide Group: Group 28
- O Active Ingredient(s): Cyantraniliprole
  Packaging: 4 x 2.365 L jugs per case
- Re-entry Period: 12 hours

	Insects Controlled and Application Information						
Crop	Pest	Rate	PHI	Application Information			
Potatoes	Colorado potato beetle Potato flea beetle (early season control of spring adults)	6.75-9 mL/ 100 m of row	n/a	In-furrow application: Apply as a narrow band in-furrow. For best results, direct spray on the seed pieces in the furrow. Thorough coverage of seed pieces is important to obtain optimum control.			
Root Vegetables (except sugar	Flea beetle (early season damage reduction)	6.75-9 mL/ 100 m of row	21 days	In-furrow application: Apply as a narrow band in-furrow. For best results, direct spray on the seed in the furrow. Thorough			
beets), carrot, radish, turnip, ginseng, garden beet, etc.	Cabbage maggot	10-15 mL/ 100 m of row		coverage of seed is important to obtain optimum control.			
Brassica Leafy Vegetables (Group 5): Broccoli, Brussels sprouts, cabbage, cauliflower, kale, etc. Greenhouse	Imported cabbage worm Diamondback moth Cabbage looper Flea beetles (early season damage reduction) Swede midge (early season damage reduction)	304-405 mL/ac Greenhouse transplant tray drench: 24-32 mL/1000 plants	spray, in the transplant wate surface application at the tin Transplant tray drench a Apply Verimark Insecticide a drench before transplanting in 2 L of water per 1000 plants to off the plants and into the sc product out of the transplant	Apply specified dosage as an in-furrow spray, in the transplant water, or as a banded surface application at the time of transplanting.  Transplant tray drench application: Apply Verimark Insecticide as a transplant tray drench before transplanting into the field. Apply in 2 L of water per 1000 plants at the rate for listed pests. Immediately after applying, apply 2 L of water per 1000 plants to rinse the product off the plants and into the soil. Do not rinse the product out of the transplant medium.			
Transplants	Cabbage maggot	10-15 mL/ 100 m of row Greenhouse transplant tray drench: 35-54 mL/1000 plants		Verimark Insecticide may be applied as a transplant tray drench no earlier than 72 hours prior to planting in field.  See "transplant tray drench" section of label for details on transplant tray application directions.			





Insects Controlled and Application Information								
Crop	Pest	Rate	PHI	Application Information				
Tomato (In-Furrow)	Colorado potato beetle	7-10 mL/100 m of row. Typical row spacing for tomatoes is 90 cm. See conversion table on the product label for L/Ha rate.	n/a	In-furrow application: Apply specified dosage as an in-furrow spray, in the transplant water at the time of transplanting.				

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.				
Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.				









### Always on the offensive

- One of the most systemic fungicides in its class
- Has both preventative and curative disease control activity
- Ideal choice as the foundation of any pest management program and can be easily tank-mixed to complement other modes of action
- Ocrop: Apples, grapes, strawberries, dry soybeans
- Fungicide Group: Group 3

  Active Ingredient(s): Flutriafol
- Packaging: 4 x 1.5 L jugs per case
- Re-entry Period: 12 hours

	Disease Controlled and Application Information						
Crop	Pest	Rate	PHI	Application Information			
Apple	Scab (Venturia inaequalis) (Green tip- cover sprays) Fullback® 125 SC fungicide tank-mixed with a protectant fungicide (Dithane™ DG 75 fungicide, Maestro® 80 DF fungicide or Supra® Captan 80 WDG)	385 mL/ac	14 days	Initiate applications at green tip or when environmental conditions are favourable for primary scab development. Applications should continue through the duration of primary scab.  Spray Intervals: 7-10 days through petal fall, 10-14 days after petal fall.			
	Powdery mildew (Podosphaera leucotricha) Quince rust (Gymnosporngium clavipes) Cedar apple rust (Gymnosporangium juniperi-virginianae)	237-355 mL/ac		Initiate applications at green tip and continue through cover sp rays.  Spray Intervals: 10-14 days.			
Grape	Powdery mildew (Erysiphe necator syn. Uncinula necator) Black rot (Guignardia bidwellii)	237-296 mL/ac	14 days	Apply as a foliar spray beginning at 15 to 25 cm shoots. Use the higher rate and/or shorter intervals when disease pressure is high.  Spray Intervals: 14 – 21 days for powdery mildew, 14 days for black rot.			
Strawberry	Powdery mildew (Sphaerotheca aphanis syn. S. macularis)	207-415 mL/ac	8 days	Apply as a foliar spray when conditions are favourable for disease development. Use the higher rate and/or shorter spray intervals under severe sustained disease pressure. Non-ionic surfactant at 0.25% v/v may be added to the spray solution. Spray Intervals: 7-10 days.			



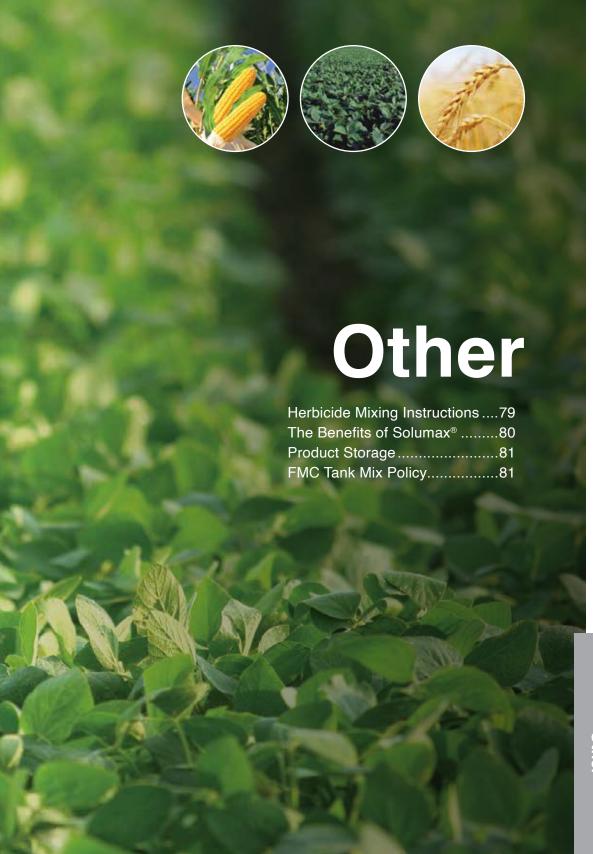
Disease Controlled and Application Information						
Crop	Pest	Rate	PHI	Application Information		
Dry soybeans	Asian soybean rust (Phakopsora pachyrhizi)	207-415 mL/ac	21 days	Apply as a broadcast foliar spray when conditions are favourable for development of soybean rust. Repeat after first application if environmental conditions are favourable for continued disease development. May be tank-mixed with Headline® EC fungicide at the label rates for resistance management.		
				Spray Interval: 21-35 days.		
				Do not feed forage or hay to animals or permit animals to graze		
	Frogeye leaf spot (Cercospora sojina) Cercospora blight and leaf spot (Cercospora kikuchii) Brown spot (Septoria glycines)	207-415 mL/ac	21 days	Apply as a broadcast foliar spray to soybean plants in R3 growth stage (early pod fill) or when environmental conditions are favourable for disease development.  Apply second application if conditions are conducive for heavy disease development.  Use the higher rate and shorter spray interval under severe sustained disease pressure.		
				Spray Interval: 14-21 days.		
				Do not feed forage or hay to animals or permit animals to graze.		

		•	•











## Herbicide Mixing Instructions



- 2. Fill sprayer tank half full with clean water.
- 3. With agitator running, add the FMC products according to their formulation as shown below in the WAMLEGS chart. Add the products slowly. Ensure agitation reaches all parts of the tank.
- 4. If using a mix & fill tank, add the FMC product to as large a volume of water as possible in a chemical handler.
- 5. Add product to tank and agitate for 10 minutes.
- 6. Proceed with adding additional products as per the WAMLEGS chart and water while maintaining agitation. Ensure each product is agitated sufficiently, before proceeding to the next tank-mix partner.
- 7. For repeat tank loads, start off with an empty tank or ensure spray solution is reduced to 10% or less of the original volume.
- 8. (Recommended) For the last load of the day, add 10 L of household ammonia (containing at least 3% ammonia) to the tank heel PRIOR to the addition of the FMC product, water and glyphosate. Follow steps 2 through 6.
- 9. (Recommended) When spraying an FMC product for multiple days in a row, it is important at the end of each day to fill the sprayer with water, overnight, to prevent any film from developing on the spray tank walls.

Wettable powders, dispersible granules, soluble granules (WG, DF, SG, WP, SP)

Agitate tank-mix thoroughly

Micro-encapsulated suspensions (ME)

Liquid flowables and suspensions (SC, SL, SN, Li, SU, SE)

Emulsifiable concentrate formulations (EC)

Fill spray tank nearly full with water

**G**lyphosate formulations

**S**urfactants

• Complete filling the spray tank to the desired level

## Special mixing instructions for soluble granule (SG) herbicides when using a CHEM HANDLER:

- 1. Ensure the chem handler is clean (rinsed with ammonia).
- 2. For best results, add the SG herbicide to the top of the sprayer tank.
- 3. If you do use a chem handler, make sure that all of the SG herbicide is completely dissolved and injected into the main tank with agitation, before adding other chemicals.
- 4. Low water volumes in some chem handlers can cause the water to become saturated with soluble granules, leaving undissolved granules. In that case, rinse the chem handler with clean water before adding any other chemicals.
- 5. Always dissolve the soluble granules with agitation in the main tank before adding a tankmix partner.

Note: Follow the clean-out procedure recommended for sprayer tanks for the chem handler.

# The Benefits of Solumax® Soluble Granules



#### The convenience and benefits of a dry herbicide, that works like a liquid

Many sulfonylurea herbicides from FMC are formulated using the unique technology of Solumax® soluble granules, which deliver active ingredients that completely dissolve in water and create a clear solution. That means you get all the convenience and benefits of a dry herbicide that works just like a liquid.

#### Here are the three (3) key benefits:

#### 1. Solumax® will help you save time, money and water with easier sprayer cleanout.

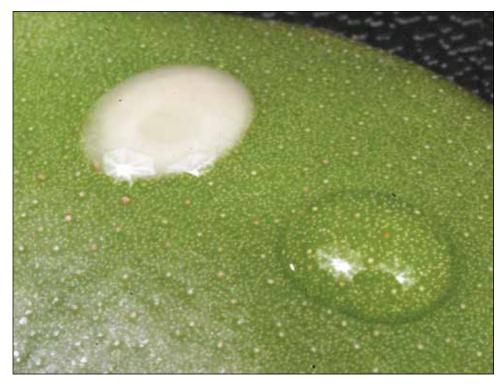
Products powered by Solumax® fully dissolve into solution so less active ingredient adheres to the sides of the tank, and particles won't clog nozzles or become trapped in filters and other pinch points. In tests, cleanout times were reduced by up to 70% when compared to the older dry flowable herbicide formulations.

#### 2. Lower risk to sensitive crops.

It is easier to remove product residue from the tank, thus the potential impact to subsequently sprayed sensitive crops is minimized.

#### 3. Consistent weed control.

Solumax® increases the bioavailability of the active ingredient to the weed. The active is rapidly absorbed into the weed, which provides fast, effective and consistent weed control.



The clear liquid on the leaf surface is a herbicide powered by Solumax<sup>®</sup>. It is completely dissolved into a clear solution. The DF herbicide is cloudy because its particles are merely in suspension.

### **Product Storage**

Storage requirements					
Heated storage required	Aim® EC Authority® 480 Authority® Supreme Barricade® M Command® 360 ME Coragen® MaX	Cygon® 480-AG Exirel® Focus® Pounce® 384 EC Verimark®			
Heated storage NOT required	Altacor® MaX Beleaf® 50SG Express® FX Express® SG Fullback® 125 SC Muster®	Pinnacle® SG  Refine® M  Refine® SG  Spartan®  UpBeet®			

### **FMC Tank Mix Policy:**

Specified FMC products may be tank mixed 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 their label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on an FMC product label.













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Always read and follow label instructions. Member of CropLife Canada.

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