

2016-1853  
2018-11-29

GROUP

9D

INSECTICIDE

## VERSYS™ INSECTICIDE

For use in the control of aphids and whiteflies in the following crops: CSG 1C Tuberous and Corm Vegetables, CG 4-13 Leafy Vegetables, CG 5-13 Brassica Head and Stem Vegetables, CG 8-09 Fruiting Vegetables, CG 9 Cucurbit Vegetables, CG 11-09 Pome Fruits, CG 12-09 Stone Fruits, CSG 22B Leaf Petioles Vegetables, Hazelnuts, and Greenhouse and Outdoor Ornamentals (except conifers)

Emulsifiable Concentrate

AGRICULTURAL

ACTIVE INGREDIENT: Afidopyropen.....100 g/L

REGISTRATION NO. 33266 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT, 1-800-454-2673**



**WARNING - POISON  
SKIN IRRITANT**

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.  
100 Milverton Drive  
5th Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

**VERSYS™ INSECTICIDE** is a trademark of BASF SE, used under license by BASF Canada Inc.

## GENERAL INFORMATION

**VERSYS™ INSECTICIDE**, a dispersible concentrate (DC), is a selective contact insecticide for control of a variety of aphid and whitefly pests. The active ingredient in **VERSYS INSECTICIDE** is afidopyropen, a member of the pyropene class of chemistry. **VERSYS INSECTICIDE** causes immediate cessation of feeding.

When used as directed, **VERSYS INSECTICIDE** provides control of aphid and whitefly pests on the crops listed on this label.

### **DIRECTIONS FOR USE (See specific sections for each crop group)**

Shake container well before use.

Apply recommended rates of **VERSYS INSECTICIDE** as instructed in the following series of crop application rate tables. For **VERSYS INSECTICIDE** to be most effective, apply at the first sign of insects and before the build-up of heavy pressure. Application must be timed to coincide with locally recommended treatment threshold levels.

**VERSYS INSECTICIDE** is not systemic. Thorough and uniform coverage of all plant parts is required for effective control. Foliar applications may be made using properly calibrated ground or aerial application equipment. Use of higher water volumes is recommended for thorough and uniform coverage. Applying **VERSYS INSECTICIDE** at spray volumes lower than directed can make it harder to obtain thorough coverage and may result in slower activity and/or inadequate control.

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

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

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

### **Plant Tolerance**

This product has been tested on a number of crop varieties with no phytotoxicity observed at labeled rates; however, **VERSYS INSECTICIDE** has not been tested on all varieties and cultivars. Due to the large number of plant species and their associated varieties or cultivars, and due to variable growing conditions, it is impossible to test every plant for tolerance to this product. It is recommended to test a small group of representative plants for tolerance to **VERSYS INSECTICIDE** under local growing conditions and prior to large-scale use.

## VERSYS INSECTICIDE Application Instructions

<b>CROP SUBGROUP 1C - Tuberous and Corm Vegetables Application Rate Table (Ground and Aerial Application)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>SUBGROUP 1C - Tuberous and Corm Vegetables*</b>	green peach aphid ( <i>Myzus persicae</i> )	0.1	7
	potato aphid ( <i>Macrosiphum euphoribae</i> )		
	sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.35-0.5	
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Always use adequate water volume to ensure thorough coverage.</li> <li>• For ground application, apply in a minimum spray volume of 100 L/ha.</li> <li>• For aerial application, apply in a minimum spray volume of 50 L/ha.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• For potato and sweet potato: Application during the crop blooming period may be made only in the evening when most bees are not foraging.</li> </ul>			
<p><b>*CROP SUBGROUP 1C - Tuberous and Corm Vegetables:</b></p> <p>Arrowroot, Chinese Artichoke, Jerusalem Artichoke, edible Canna, Chufa, Dasheen (taro), Potato, Sweet Potato, and true Yam.</p>			

<b>CROP GROUP 4-13 Leafy Vegetables (except Brassica) Application Rate Table (Ground Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 4 - 13 Leafy Vegetables*</b>	green peach aphid ( <i>Myzus persicae</i> )	0.1	0
	potato aphid ( <i>Macrosiphum euphoribae</i> )		
	lettuce aphid ( <i>Nasonovia ribis-nigri</i> )		
	sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.35-0.5	
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Apply in a minimum spray volume of 100 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• <b>DO NOT apply in greenhouses.</b></li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 4 -13 - Leafy Vegetables:</b></p> <p>Chinese Amaranth, Leafy Amaranth, Arugula, Indian Aster, Blackjack, Broccoli raab, Chinese Broccoli, Cabbage (Abyssinian, seakale), Cat's Whiskers, Cham-chwi, Cham-namul, Fresh Chervil leaves, Chinese cabbage (bok choy), Chipilin, Garland Chrysanthemum, Cilantro (fresh leaves), Collards, Corn salad (including Lamb's lettuce and Italian Corn salad), Cosmos, Cress (garden, upland), Dandelion, Dang-gwi, Dillweed (fresh leaves), Dock, Dol-nam-mul, Ebolo, Endive, Escarole, Fameflower, Feather cockscomb, Good King Henry, Hanover salad, Huauzontle, Jute leaves, Kale, lettuce (bitter, head, leaf, romain), Maca, Mizuna, Mustard greens, Orach, Parsley (fresh leaves), Plantain (buckhorn and Common), English Primrose, Purslane (garden and winter), Radicchio (Red Chicory), Radish (leaves), Rape greens, Wild Rocket, Shepherd's purse, Spinach (Including Malabar, New Zealand, Tanier and tree), Swiss chard, Turnip greens, Chinese Violet, Watercress, Cultivars, varieties and/or hybrids of these</p>			

<b>CROP GROUP 5-13 - Brassica Head and Stem Vegetables Application Rate Table (Ground Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 5-13 Brassica Head and Stem Vegetables*</b>	cabbage aphid ( <i>Brevicoryne brassicae</i> )	0.1	0
	green peach aphid ( <i>Myzus persicae</i> )		
	sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.35-0.5	
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Apply in a minimum spray volume of 100 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 5-13 - Brassica Leafy Vegetables including:</b>            Broccoli, Brussels sprouts, Cabbage, Chinese Cabbage (Napa), Cauliflower, Cultivars, varieties and/or hybrids of these</p>			

<b>CROP GROUP 8-09 – Fruiting Vegetables Application Rate Table (Ground Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 8-09 - Fruiting Vegetables (except Cucurbits)</b>	green peach aphid ( <i>Myzus persicae</i> )	0.1	0
	potato aphid ( <i>Macrosiphum euphoribae</i> )	0.35-0.5	
	sweet potato whitefly ( <i>Bemisia tabaci</i> )		
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Apply in a minimum spray volume of 100 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• Application during the crop blooming period may be made only in the evening when most bees are not foraging.</li> <li>• <b>DO NOT apply in greenhouses.</b></li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 8-09 - Fruiting Vegetables:</b></p> <p>African Eggplant, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Groundcherry, Martynia, Okra, Pea Eggplant, Pepino, bell Pepper, non-bell Pepper, Scarlet Eggplant, Sunberry, Tomatillo, Tomato, Cultivars, varieties and hybrids of these commodities.</p>			

<b>CROP GROUP 9 – Cucurbit Vegetables Application Rate Table (Ground Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 9 – Cucurbit Vegetables*</b>	melon aphid ( <i>Aphis gossypii</i> )	0.1	0
	green peach aphid ( <i>Myzus persicae</i> )		
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )	0.35-0.5	
	sweet potato whitefly ( <i>Bemisia tabaci</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Apply in a minimum spray volume of 100 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• Application during the crop blooming period may be made only in the evening when most bees are not foraging.</li> <li>• <b>DO NOT apply in greenhouses.</b></li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 9 –Cucurbit Vegetable:</b></p> <p>Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, edible Gourd (includes hyotan, cucuzza), edible Gourd (includes hechima, Chinese okra), <i>Momordica spp.</i> (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin, summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter Squash (includes butternut squash, calabaza, hubbard squash); (<i>C. mixta</i>, <i>C. pepo</i>) (includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of <i>Citrullus lanatus</i>)</p>			

<b>CROP GROUP 11-09 – Pome Fruits Application Rate Table (Airblast Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 11-09 - Pome Fruits*</b>	rosy apple aphid ( <i>Dysaphis plantaginea</i> )	0.1	7
	green apple aphid ( <i>Aphis pomi</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• For air blast application, apply in a minimum spray volume of 1000 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 0.4 L/ha per year.</li> <li>• Application during the crop blooming period, and when orchard ground cover containing blooming plants or weeds is present, may be made only in the evening when most bees are not foraging.</li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 11-09 – Pome Fruits:</b></p> <p>Apple, Azarole, Crabapple, Mayhaw, Medlar, Pear, Asian Pear, Quince, Chinese Quince, Japanese Quince, Tejocote, Cultivars, varieties and/or hybrids of these commodities.</p>			



<b>CROP GROUP 12-09 – Stone Fruits Application Rate Table (Airblast Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP GROUP 12-09 - Stone fruits*</b>	rusty plum aphid ( <i>Hysteroneura setariae</i> )  black cherry aphid ( <i>Myzus cerasi</i> )  mealy plum aphid ( <i>Hyalopterus pruni</i> )	0.1	7
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• For air blast application, apply in a minimum spray volume of 1000 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply more than 0.20 L/ha per year.</li> <li>• Application during the crop blooming period, and when orchard ground cover containing blooming plants or weeds is present, may be made only in the evening when most bees are not foraging.</li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP GROUP 12-09 – Stone Fruits:</b></p> <p>Apricot, Japanese Apricot, black Cherry, Nanking Cherry, sweet Cherry, tart Cherry, Chinese Jujube, Nectarine, Peach, Plum, American Plum, beach Plum, Canada Plum, cherry Plum, Chickasaw Plum, Damson Plum, Japanese Plum, Klamath Plum, prune Plum, Plumcot, Sloe, Cultivars, varieties, and hybrids of these commodities.</p>			

<b>CROP SUBGROUP 22B Leaf Petioles Vegetables Application Rate Table (Ground Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>CROP SUB GROUP 22B – Leaf Petioles Vegetables*</b>	green peach aphid ( <i>Myzus persicae</i> )	0.1	0
	potato aphid ( <i>Macrosiphum euphoribae</i> )		
	lettuce aphid ( <i>Nasonovia ribis-nigri</i> )		
	sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.35-0.5	
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• Apply in a minimum spray volume of 100 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 1.25 L/ha per year.</li> <li>• <b>DO NOT apply by air</b></li> </ul>			
<p><b>*CROP SUBGROUP 22B – Leaf Petioles Vegetables:</b> Cardoon, Celery, Chinese Celery, Fuki, Rhubarb, Udo, Zuiki, Cultivars, varieties, and hybrids of these commodities.</p>			

<b>Hazelnuts Application Rate Table (Airblast Application Only)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>Hazelnuts</b>	filbert aphid ( <i>Myzocallis coryli</i> )	0.1	7
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• For air blast application, apply in a minimum spray volume of 1000 L/ha. Use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• Resistance management: <b>DO NOT</b> make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply more than 0.2 L/ha per year.</li> <li>• Application during the crop blooming period, and when orchard ground cover containing blooming plants or weeds is present, may be made only in the evening when most bees are not foraging.</li> <li>• <b>DO NOT apply by air</b></li> </ul>			

**Ornamentals (except conifers) Greenhouse and Outdoor Use  
Application Rate Table  
(Ground Application Only)**

Crop(s)	Pest(s)	Amount of Product per Application (L/ha)	Pre-Harvest Interval (days)
Ornamentals* (except conifers)	rose aphid ( <i>Macrosiphum rosae</i> )	0.1	N/A
	green peach aphid ( <i>Myzus persicae</i> )		
	melon aphid ( <i>Aphis gossypii</i> )		
	silver leaf whitefly ( <i>Bemisia argentifolii</i> ),  sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.35 - 0.5	

- Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.
- A minimum spray volume of 1000 L/ha is recommended. Use adequate water volume to ensure thorough coverage.
- Please see plant tolerance for more specific variety information.
- Resistance management: **DO NOT** make more than 2 sequential applications of VERSYS before using an insecticide with a different mode of action.
- For outdoor ornamental plants: **DO NOT** apply more than 4 applications per year. **DO NOT** exceed 1.25 L/ha per year.
- For greenhouse ornamental plants (excluding cut flowers) with crop cycles shorter than 1 year (e.g., annual bedding plants): **DO NOT** apply more than 4 applications per crop cycle. **DO NOT** exceed 1.25 L/ha per crop cycle. **DO NOT** exceed 4 L/ha per year.
- For greenhouse ornamental plants (cut flowers only) with crop cycles shorter than 1 year:
  - For applications at 0.1 L/ha only: **DO NOT** apply more than 4 applications per crop cycle. **DO NOT** exceed 4 L/ha per year.
  - For applications that include rates of 0.35 or 0.5 L/ha: **DO NOT** apply more than 1 application per year at 0.5 L/ha or **DO NOT** apply more than 2 applications per year at 0.35 L/ha. **DO NOT** exceed 0.7 L/ha per year.
- **For outdoor use:** Application during the crop blooming period may be made only in the evening when most bees are not foraging.
- **For greenhouse use:** May cause short term effects to bees, including those used in greenhouse production. Do not apply when bees or other beneficial insects are actively visiting the treatment area.
- **DO NOT apply by air**
- Not for use in residential areas. Residential areas are defined as any use site

where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

**\*Ornamentals including:**

Rose, Hibiscus, Impatiens, Poinsettia (not including bract formation)

### Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate/ha per Application (Litres)	Maximum Product Rate/ha per Year (Litres)
<b>CSG 1C Tuberos and Corm Vegetables</b>	7	0.5	1.25
<b>CG 4-13 Leafy Vegetables</b>	0	0.5	1.25
<b>CG 5-13 Brassica Head and Stem Vegetables</b>	0	0.5	1.25
<b>CG 8-09 Fruiting Vegetables</b>	0	0.5	1.25
<b>CG 9 Cucurbit Vegetables,</b>	0	0.5	1.25
<b>CG 11-09 Pome Fruits</b>	7	0.1	0.4
<b>CG 12-09 Stone Fruits</b>	7	0.1	0.2
<b>CSG 22B Leaf Petioles Vegetables</b>	0	0.5	1.25
<b>Hazelnuts</b>	7	0.1	0.2
<b>Greenhouse and Outdoor Ornamentals (except conifers)</b> <b>[Refer to Ornamentals 'Application Rate Table']</b>	N/A	0.5	Outdoor: 1.25 L/ha per year  Greenhouse: 1.25 L/ha per crop cycle to a maximum of 4 L/ha per year (excluding cut flowers unless the only application rate is 0.1 L/ha)  Greenhouse: 0.7 L/ha per year (for cut flowers only, and only if application rates include rates greater than 0.1 L/ha)

### **Ground application**

Apply **VERSYS INSECTICIDE** at rates listed in the crop specific application rate tables when insect thresholds are reached. Use a minimum water volume of 100 L/ha depending on the application method (see crop specific application tables). Ensure thorough coverage of foliage. Consult nozzle manufacturers' recommendation for spray pressures for specific nozzles.

### **Airblast application**

Apply **VERSYS INSECTICIDE** at rates listed in the crop specific application rate tables when insect thresholds are reached. Use a minimum water volume of 1000 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers' recommendation for spray pressures for specific nozzles.

### **Aerial application**

Apply **VERSYS INSECTICIDE** at rates listed in the crop specific application rate tables when insect thresholds are reached. Use a minimum water volume of 50 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers' recommendation for spray pressures for specific nozzles.

### **Instructions for Aerial Applications**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

### **Tank Mixing**

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact BASF Canada Inc. at 1-877-371-2273 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by BASF Canada Inc.

Before using any tank mixture, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Treat a small group of target crop including plant cultivars and evaluate for 3-7 days prior to making an application to your entire crop.

### **Vegetative Filter Strips**

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

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

Both VFS and spray drift buffer zones must be observed.

### **Spray Drift Buffer Zones**

Spray drift buffer zones are to protect terrestrial and aquatic habitats from spray drift. Spray drift buffer zones are a separate requirement from VFS which are required to mitigate risks from run-off.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is



greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

### Spray Drift Buffer Zones:

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

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

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Tuberous and Corm Vegetables, Leafy Vegetables, Brassica Head and Stem Vegetables, Fruiting Vegetables (except Cucurbits), Cucurbit Vegetables, Leaf Petioles Vegetables and Ornamentals (except conifers)		3	2	40	20
Airblast	Pome Fruit	Early growth stage	20	10	45	35
		Late growth stage	10	5	35	25
	Stone Fruit and Hazelnuts	Early growth stage	15	5	45	35
		Late growth stage	5	3	35	25
	Ornamentals (except conifers)	Early growth stage	30	25	60	50
		Late growth stage	25	15	50	40
Aerial	Tuberous and Corm Vegetables	Fixed wing	65	20	800	800
		Rotary wing	50	20	800	550

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

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site. This tool cannot be used to reduce the vegetative filter strips.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms. Observe buffer zones and vegetative filter strips specified under DIRECTIONS FOR USE.

Bee Warning. Laboratory studies have shown sublethal effects (such as co-ordination and locomotion problems) to bees. Semi-field and field studies conducted with this product have shown no effects on honeybee colony development. However, short term effects may occur. Minimize spray drift to reduce exposure to bees in habitats close to the application site. Application during the crop blooming period, and when flowering weeds are present may be made in the evening when most bees are not foraging. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website ([www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

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

Avoid application when heavy rain is forecast.

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

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, **VERSYS INSECTICIDE** contains a Group 9D insecticide. Any insect population may contain individuals naturally resistant to **VERSYS INSECTICIDE** and other Group 9 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

Where possible, rotate the use of **VERSYS INSECTICIDE** or other Group 9 insecticides with different groups that control the same pests.

- **DO NOT** exceed the total number of applications of **VERSYS INSECTICIDE** per year as stated in the crop specific restrictions and limitations.
- Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting and record keeping, and considers pest thresholds, as well as cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca).

## **MIXING**

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the tank one-half full of water and start agitation.
3. Add the required amount of **VERSYS INSECTICIDE** to the tank.
4. Add the required amount of tank mix partner to the tank if required.
5. Continue agitation while filling the remainder of the spray tank.
6. After use, clean the spray tank according to PRECAUTIONS.

## **RESTRICTIONS AND LIMITATIONS**

A 30-day plant back interval is required for crops not listed on the label.

## **PRECAUTIONS**

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed or absorbed through skin.
3. Harmful if inhaled. Avoid breathing sprays. Causes skin irritation. **DO NOT** get on skin.

4. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou-Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required during application within a closed cab.
5. Wash hands before eating, drinking, smoking or using the toilet. Change out of work clothes and take a bath or shower after handling or spraying the product. Launder protective clothing before re-use.
6. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
7. Clean spray equipment thoroughly after use.
8. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
9. Not for use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. **DO NOT** induce vomiting unless told to do so by a poison control centre or doctor. **DO NOT** give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

## **TOXICOLOGICAL INFORMATION**

There is no specific antidote. Treat symptomatically.

## **STORAGE**

1. Store the leftover product in original tightly closed container.
2. To prevent contamination, do not ship or store the product near food, feed, seed, or fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without a floor drain.

## **DISPOSAL**

**DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### **For Returnable Containers**

Do not reuse this container for any purpose. For disposal, this container may be returned to the point of purchase (distributor/dealer).

### **For Refillable Containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

### **For Non-Returnable containers**

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

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

**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Container Label

GROUP

9D

INSECTICIDE

## VERSYS™ INSECTICIDE

For use in the control of aphids and whiteflies in the following crops: CSG 1C Tuberous and Corm Vegetables, CG 4-13 Leafy Vegetables, CG 5-13 Brassica Head and Stem Vegetables, CG 8-09 Fruiting Vegetables, CG 9 Cucurbit Vegetables, CG 11-09 Pome Fruits, CG 12-09 Stone Fruits, CSG 22B Leaf Petioles Vegetables, Hazelnuts, and Greenhouse and Outdoor Ornamentals (except conifers)

Emulsifiable Concentrate

AGRICULTURAL

ACTIVE INGREDIENT: Afidopyropen.....100 g/L

REGISTRATION NO. 33266 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT, 1-800-454-2673**



**WARNING**

**POISON**

**SKIN IRRITANT**

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.  
100 Milverton Drive  
5th Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

**VERSYS™ INSECTICIDE** is a trademark of BASF SE, used under license by BASF Canada Inc.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed or absorbed through skin.
3. Harmful if inhaled. Avoid breathing sprays. Causes skin irritation. **DO NOT** get on skin.
4. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou-Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required during application within a closed cab.
5. Wash hands before eating, drinking, smoking or using the toilet. Change out of work clothes and take a bath or shower after handling or spraying the product. Launder protective clothing before re-use.
6. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours
7. Clean spray equipment thoroughly after use.
8. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
9. Not for use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. **DO NOT** induce vomiting unless told to do so by a poison control centre or doctor. **DO NOT** give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.



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

## **TOXICOLOGICAL INFORMATION**

There is no specific antidote. Treat symptomatically.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms. Observe buffer zones and vegetative filter strips specified under DIRECTIONS FOR USE.

Bee Warning. Laboratory studies have shown sublethal effects (such as co-ordination and locomotion problems) to bees. Semi-field and field studies conducted with this product have shown no effects on honeybee colony development. However, short term effects may occur. Minimize spray drift to reduce exposure to bees in habitats close to the application site. Application during the crop blooming period, and when flowering weeds are present may be made in the evening when most bees are not foraging. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website ([www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

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

Avoid application when heavy rain is forecast.

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

## **STORAGE**

1. Store the leftover product in original tightly closed container.
2. To prevent contamination, do not ship or store the product near food, feed, seed, or fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without a floor drain.

## **DISPOSAL**

**DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

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

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### **For Returnable Containers**

Do not reuse this container for any purpose. For disposal, this container may be returned to the point of purchase (distributor/dealer).

#### **For Refillable Containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

#### **For Non-Returnable containers**

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

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

#### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Smaller Container Label

GROUP	9D	INSECTICIDE
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**VERSYS™ INSECTICIDE**

Emulsifiable Concentrate

AGRICULTURAL

ACTIVE INGREDIENT: Afidopyropen.....100 g/L

REGISTRATION NO. 33266 PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT, 1-800-454-2673**



**WARNING**

**POISON**

**SKIN IRRITANT**

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.  
100 Milverton Drive  
5th Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

**VERSYS™ INSECTICIDE** is a trademark of BASF SE, used under license by BASF Canada Inc.

## PRECAUTIONS

Please refer to the booklet for the complete list of precautions and Personal Protective Equipment.

1. Harmful if swallowed or absorbed through skin.
2. Harmful if inhaled. Avoid breathing sprays. Causes skin irritation. DO NOT get on skin.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. **DO NOT** induce vomiting unless told to do so by a poison control centre or doctor. **DO NOT** give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

## TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

Please see the booklet for complete list of Environmental Precautions and information regarding Notice to User.

## STORAGE

1. Store the leftover product in original tightly closed container.
2. To prevent contamination, do not ship or store the product near food, feed, seed, or fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without a floor drain.

## DISPOSAL

**DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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#### **For Refillable Containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

#### **For Non-Returnable containers**

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