



NEMATICIDE		
GROUP	7	FUNGICIDE

## VELUM® PRIME

NEMATICIDE  
FUNGICIDE

SUSPENSION

**Broad spectrum nematocide/fungicide for use in vegetable and fruit crops**

COMMERCIAL

REGISTRATION NUMBER: 32108 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Fluopyram 500 g/L

Contains 1,2-benzisothiazolin-3-one at 0.029% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0007% and 2-methyl-4-isothiazolin-3-one at 0.00025% as preservatives.

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 – 200 L

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. SE  
Calgary, AB  
T2C 3G3

[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

**For product information, call 1-888-283-6847.**

**In case of spills, poisoning or fire, call telephone emergency response number 1-800-334-7577 (24 hours a day).**

#### 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.

DIRECTIONS FOR USE: See the printed booklet provided with this container.

#### PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with the skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

#### PROTECTIVE CLOTHING AND EQUIPMENT:

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

#### RE-ENTRY RESTRICTION:

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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

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

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

Take container, label or product name and Pest Control Product Registration Number with

you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

#### ENVIRONMENTAL PRECAUTIONS

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

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

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

Avoid application when heavy rain is forecast.

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

#### STORAGE

Store this product away from food or feed. Do not store below freezing. If stored for 1 year or longer, shake well before using. Do not use or store in or around the home. Keep the product in the original container during storage. In case of fire, leaking or damaged containers, call toll free 1-800-334-7577.

#### DISPOSAL

Recyclable Container 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.

Returnable containers: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

**Disposal of Unused, Unwanted Product:**

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

**Disposal of Unused Spray Solution:**

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

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VELUM® PRIME is a registered trademark of Bayer.



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# VELUM® PRIME

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## GENERAL INFORMATION

### SECTION 1: NOTICE

#### 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.

### SECTION 2: THE PRODUCT

VELUM® PRIME is a broad spectrum nematicide/fungicide with preventative, systemic, and curative properties recommended for the suppression of certain soil plant pathogenic nematodes and protection from certain crop diseases. VELUM PRIME is best suited for use in a preventative treatment program.

## SAFETY AND HANDLING

### SECTION 3: PRECAUTIONS

#### PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with the skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

#### PROTECTIVE CLOTHING AND EQUIPMENT:

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

## RE-ENTRY RESTRICTION:

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

## SECTION 4: FIRST AID AND TOXICOLOGICAL INFORMATION

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

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

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

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

### TOXICOLOGICAL INFORMATION:

Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

## SECTION 5: ENVIRONMENTAL PRECAUTIONS

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

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

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

Avoid application when heavy rain is forecast.

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



## SECTION 6: STORAGE

Store this product away from food or feed. Do not store below freezing. If stored for 1 year or longer, shake well before using. Do not use or store in or around the home. Keep the product in the original container during storage. In case of fire, leaking or damaged containers, call toll free 1-800-334-7577.

## SECTION 7: DISPOSAL

### Recyclable Container 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.

Returnable containers: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

### Disposal of Unused, Unwanted Product:

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

### Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

## DIRECTIONS FOR USE

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.

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.

Chemigation: **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. Applications **MUST** be conducted **WITHOUT** the use of end guns.

Do not apply this product through any other type of irrigation system.

Do not apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

**DO NOT** apply by aerial application equipment.

**Buffer zones:**

Spot treatments using hand-held equipment **DO NOT** require a buffer zone. Use of low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage, and soil drench or soil incorporation **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 terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	
Field sprayer	Ginseng	1	0	1

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 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.

**SECTION 8: CROP, PESTS, RATE, TIMING AND APPLICATION INSTRUCTIONS**

**CROP SUBGROUP 1C: TUBEROUS AND CORM VEGETABLES**

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter & sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, **Potato, Sweet Potato**, Tanier (cocoyam), Turmeric, Yam bean (jicama, manioc pea), Yam (true)

Pest/Disease Suppressed	Rate	Use Information
<p><b>Plant pathogenic nematodes:</b></p> <p>Root lesion nematodes (<i>Pratylenchus</i> spp.),</p> <p>Root knot nematodes (<i>Meloidogyne</i> spp.),</p> <p>Potato cyst nematodes (including Pale cyst and Golden Nematode) (<i>Globodera pallida</i>, <i>Globodera rostochiensis</i>)</p>	<p>500 mL/ha</p> <p>or</p> <p>4.5 mL/ 100 m row (based on 90 cm row spacing)</p>	<p>Soil Applications using ground equipment:</p> <p>Spray specified dosage in a 10-15 cm band in-furrow at planting and cover with soil. For best results direct the in-furrow spray to the seed and soil.</p> <p>Apply in 50-150 L of water per hectare.</p> <p>For transplanted crops:</p> <ol style="list-style-type: none"> <li>1. Post-planting drench, or hill drench.</li> <li>2. Transplant water drench with mechanical planting.</li> <li>3. Transplant water drench with hand planting.</li> </ol>
<p>Early blight (<i>Alternaria solani</i>) and Black dot (<i>Colletotrichum coccodes</i>) on <b>Potato</b> only</p>		<p>For maximum efficacy against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p> <p>Disease pressure should be monitored throughout the growing season. Use of fungicides with different modes of action for in-season foliar applications will help limit the development of resistance and enhance late season control.</p> <p>When using fungicides for late blight control throughout the season, utilize actives that also have activity on early blight.</p> <p>Ensure additional resistance management recommendations in Section 11 are followed.</p>

**Restrictions:** Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). To limit the potential for development of disease resistance to this fungicide class do not make more than 2 sequential applications of VELUM PRIME or any other Group 7 containing fungicide before rotating with a fungicide from a different Group registered for the same use. When VELUM PRIME is applied as a soil application use another mode of action for the first foliar fungicide application.

Do not apply VELUM PRIME within 7 days of harvest. Tops or greens from these crops may be utilized for food or feed. Do not allow livestock to graze treated area for 7 days after application.

<b>BRASSICA (COLE) LEAFY VEGETABLES</b>		
<p>Broccoli, Chinese broccoli (gai lon), Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Cauliflower, Cavolo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, including all cultivars and/or hybrids of these.</p>		
<b>Pest/Disease Suppressed</b>	<b>Rate</b>	<b>Use Information</b>
<p>Soil-dwelling, root-feeding nematodes (juveniles, adults)</p>	<p>500 mL/ha</p>	<p>Apply specified dosage in the following methods:</p> <p>Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.</p> <p>Minimum 5-day interval between soil applications.</p> <p>For maximum efficacy against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p> <p>Disease pressure should be monitored throughout the growing season. Use of fungicides with different modes of action for in-season foliar applications will help limit the development of resistance and enhance late season control.</p> <p>Ensure additional resistance management recommendations in Section 11 are followed.</p>
<p>Powdery mildew (<i>Erysiphe polygoni</i>) (<i>Erysiphe cruciferarum</i>)</p>		
<p><b>Restrictions:</b> Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). To limit the potential for development of disease resistance to this fungicide class do not make more than 2 sequential applications of VELUM PRIME or any other Group 7 containing fungicide before rotating with a fungicide from a different Group registered for the same use. When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.</p>		
<p>VELUM PRIME can be applied up to the day of harvest.</p>		

**CROP GROUP 8-09: FRUITING VEGETABLES**

African eggplant, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Groundcherry, Martynia, Okra, Pea eggplant, Pepino, Pepper (bell and nonbell *Capsicum* spp., including Chili, Cooking, Pimento and Sweet), Roselle, Scarlet eggplant, Sunberry, Tomatillo, Tomato, and cultivars, varieties and/or hybrids of these.

<b>Pest/Disease Suppressed</b>	<b>Rate</b>	<b>Use Information</b>
Soil-dwelling, root-feeding nematodes (juveniles, adults)	500 mL/ha	<p>Apply specified dosage in the following methods:</p> <p>Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.</p> <p>Minimum 7-day interval between soil applications.</p> <p>For maximum efficacy against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p> <p>Disease pressure should be monitored throughout the growing season. Use of fungicides with different modes of action for in-season foliar applications will help limit the development of resistance and enhance late season control.</p> <p>Ensure additional resistance management recommendations in Section 11 are followed.</p>
Early Blight ( <i>Alternaria solani</i> )		
<p><b>Restrictions:</b> Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). To limit the potential for development of disease resistance to this fungicide class do not make more than 2 sequential applications of VELUM PRIME or any other Group 7 containing fungicide before rotating with a fungicide from a different Group registered for the same use. When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.</p> <p>VELUM PRIME can be applied up to the day of harvest.</p>		

**CROP GROUP 9: CUCURBIT VEGETABLES**

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), Pumpkin, Squash (includes summer squash types such as: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini, and winter squash types such as acorn squash, butternut squash, calabaza, Hubbard squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*).

Note: A mild yellowing on leaf margins is sometimes seen following application of VELUM PRIME in cucurbits.

Pest/Disease Suppressed	Rate	Use Information
Soil-dwelling, root-feeding nematodes (juveniles, adults)	500 mL/ha	<p>Apply specified dosage in the following methods:</p> <p>Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.</p> <p>Minimum 5-day interval between soil applications.</p> <p>For maximum efficacy against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p> <p>Disease pressure should be monitored throughout the growing season. Use of fungicides with different modes of action for in-season foliar applications will help limit the development of resistance and enhance late season control.</p> <p>Ensure additional resistance management recommendations in Section 11 are followed.</p>
Powdery mildew ( <i>Sphaerotheca fuliginea</i> / <i>Podospaera xanthii</i> ) ( <i>Erysiphe cichoracearum</i> )		

**Restrictions:** Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). To limit the potential for development of disease resistance to this fungicide class do not make more than 2 sequential applications of VELUM PRIME or any other Group 7 containing fungicide before rotating with a fungicide from a different Group registered for the same use. When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.

VELUM PRIME can be applied up to the day of harvest.

**CROP SUBGROUP 13-07G: LOW GROWING BERRIES**

Bearberry; bilberry; lowbush blueberry; cloudberry; cranberry; lingonberry; muntries; partridgeberry; **strawberry**; and cultivars, varieties and/or hybrids of these.

Pest/Disease Suppressed	Rate (mL/ha)	Use Information
Soil-dwelling, root-feeding nematodes (juveniles, adults)	500	Apply specified dosage in the following methods:  Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. Minimum of 7 day interval between soil applications.
Powdery mildew ( <i>Sphaerotheca macularis</i> )	500	Apply through drip irrigation system preventatively. Minimum of 5- to 7-day interval.

**Restrictions:** For application through drip irrigation equipment only. Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). To limit the potential for development of disease resistance to this fungicide class do not make more than 2 sequential applications of VELUM PRIME or any other Group 7 containing fungicide before rotating with a fungicide from a different Group registered for the same use. When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.

VELUM PRIME can be applied up to the day of harvest.

## MINOR USES

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW):** The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### **CROP GROUP 11-09: POME FRUITS**

Apple, Azarole, Crabapple, Loquat, Mayhaw, Medlar, Pear, Pear (Asian), Quince, Quince (Chinese and Japanese), Tejocote, and cultivars, varieties and/or hybrids of these.

### **CROP GROUP 12-09: STONE FRUITS**

Apricot, Apricot (Japanese), Capulin, Cherry (Black, Nanking, Sweet, Tart), Jujube (Chinese), Nectarine, Peach, Plum, Plum (American, Beach, Canada, Cherry, Chickasaw, Damson, Japanese, Klamath), Plum prune, Plumcot, Sloe, and cultivars, varieties and/or hybrids of these.

### **Chokecherry**

### **CROP SUBGROUP 13-07A: CANEBERRIES**

**Blackberry** (Andean Blackberry, Artic blackberry, Bingleberry, Blacksatin berry, Boysenberry, Brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, Common blackberry, Coryberry, Darrowberry, Dewberry, Dirksen thornless berry, Evergreen blackberry, Himalayaberry, Hullberry, Lavacaberry, Lowberry, Lucretiaberry, Mammoth blackberry, Marionberry, Mora, Mures deronce, Nectarberry, Northern dewberry, Olallieberry, Oregon evergreen berry, Phenomenalberry, Rangeberry, Ravenberry, Rosberry, Shawnee blackberry, Southern dewberry, Tayberry, Youngberry, Zarzamora), **Loganberry**, and **Rasperry** (black, red and wild) and cultivars, varieties and/or hybrids of these.

<b>Crop</b>	<b>Pests suppressed</b>	<b>Rate (mL/ha)</b>	<b>Use Information/soil application</b>
Pome fruits Stone fruit Chokecherry	Soil-dwelling, root-feeding nematodes (juveniles, adults)	500	Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.
Caneberries			For optimum results, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil must be lightly pre-wetted to break soil surface tension prior to applications.  Minimum 30-day interval between soil applications.  PHI (pomefruits): 7 days PHI (stone fruit and chokecherry): 0 days
			Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.  For optimum results, apply to newly planted bushes or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil must be lightly pre-wetted to break soil surface tension prior to applications.



		<p>Minimum 7-day interval between soil applications.</p> <p>PHI: 0 days</p>
<p><b>Restrictions:</b> Apply by ground application equipment including drip irrigation systems. Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.</p> <p>For maximum control of nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p>		
<p><b>Ginseng</b></p>		
<b>Pest/Disease Suppressed</b>	<b>Rate</b>	<b>Use Information</b>
<p><b>Suppression of</b></p> <p>Soil-dwelling, root-feeding nematodes (juveniles, adults)</p>	500 mL/ha	<p>Soil Applications using ground equipment:</p> <p>Apply by field sprayer at a high water volume (2,000 to 4,000 L/ha) to ensure the product moves into the straw. Application should be followed by rainfall or overhead irrigation to move the product into the root zone.</p> <p>For best results, apply at seeding in fall and before or during seed germination in spring of the seedling year.</p> <p>For maximum efficacy against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.</p>
<p><b>Restrictions:</b> Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). When VELUM PRIME is applied as a soil application, use a different mode of action for the first foliar fungicide application.</p> <p>Do not apply VELUM PRIME within 7 days of harvest. Do not allow livestock to graze treated areas for 7 days after application.</p>		
<p><b>Garlic</b></p>		
<b>Pest Controlled</b>	<b>Rate</b>	<b>Use Information</b>
<p>Stem and bulb nematode (<i>Ditylenchus dipsaci</i>)</p>	<p>500 mL/ha</p> <p>or</p> <p>3.75 mL/100 m row (based on 75 cm row spacing)</p>	<p>Fall application or spring application:</p> <p>One application at planting in the fall or in the spring. Spray specified dosage in a 10-15 cm band in-furrow at planting and cover with soil. For best results, direct the in-furrow spray to the seed and soil.</p> <p>Apply in 50-300 L of water per hectare.</p> <p>Do not apply through drip irrigation (chemigation) systems.</p>

		For maximum efficiency against nematodes, VELUM PRIME must be utilized as part of an integrated approach to nematode management. This approach involves cultural practices and use of alternative chemistries when necessary.
<b>Restrictions:</b> Do not apply more than one application per year for this use. When VELUM PRIME is applied as a soil application, use another mode of action for the first foliar fungicide application. Do not apply VELUM PRIME within 30 days of harvest.		

Chemigation Application:

Apply this product only through drip irrigation systems, and only to crops where specified under Section 8 of this label. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact provincial extension service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. This product has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following application techniques are provided for user reference but do not constitute a warranty of fitness for application through drip irrigation equipment. Users must check with provincial and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Do not connect an irrigation system used for pesticide application to a public water system, unless the pesticide label prescribed safety devices for public water systems are in place. 'Public water system' means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer, or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an alternative to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. Pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The systems must contain functional interlocking controls, to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the

water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. Apply pesticide continuously for the duration of the water application. For mixing instructions, please refer to directions in Section 10 of this label.

This product may be used through drip irrigation on crops where specified under Section 8 of this label. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. With stationary systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution. However, a positive-displacement pump can also be used. Mix desired amount of this product for area to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration. Provide chemical supply tank agitation sufficient for mixing until chemigation is completed. Operate entire system at normal pressures recommended by the manufacturer of injection equipment used, for amount of time established during calibration. This product can be injected during the irrigation cycle or as a separate application. For drip irrigation systems, introduce fungicide into irrigation solution for a period sufficient to distribute the product uniformly in the crop. Fungicide should be added near the end of the normal irrigation cycle so that subsequent watering will not flush the product from the root zone. Stop injection equipment with any system after treatment is completed and continue to operate irrigation system until this product has been cleared from the last drip irrigation line. See crops section on the label for recommended treatment rates and additional use information.

#### SECTION 9: ROTATIONAL CROP RESTRICTIONS:

Do not apply more than the maximum seasonal rate for each specific crop from any combination of products containing FLUOPYRAM.

Do not replant to alfalfa for 14 days after application. All other crops may be replanted immediately following the last application of VELUM PRIME.

#### SECTION 10: MIXING INSTRUCTIONS

VELUM PRIME must be applied with properly calibrated, clean equipment. Prior to adding VELUM PRIME to the spray tank, ensure that the spray tank is thoroughly clean:

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.

- Add the required quantity of VELUM PRIME to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.

## SECTION 11: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, VELUM PRIME contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to VELUM PRIME and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if this product is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of VELUM PRIME (Fungicide Group 7) or other Group 7 fungicides with different groups that control the same pests.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Avoid consecutive applications of VELUM PRIME or other Group 7 fungicides in a season. When VELUM PRIME is applied as a soil application, use another mode of action for the first foliar fungicide application.
- For multi-spray crops: The total number of sprays containing Group 7 fungicides in a mixture should not exceed half of the total number of fungicide applications in a season.
- Nematicide/fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices. Monitor treated fungal populations for resistance development. Notify Bayer CropScience if reduced sensitivity of the pathogen to VELUM PRIME is suspected. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide/nematicide with a different site of action, if available.
- 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 and to report suspected resistance, contact a Bayer representative at 1-888-283-6847 or at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

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