



Container label

GROUP

49

FUNGICIDE

XIVANA PRIME®

SUSPENSION
FUNGICIDE

Fungicide for control or suppression of certain crop diseases

COMMERCIAL

REGISTRATION NO.: 35783 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:

Fluoxapiprolin..... 20.0 g/L

Contains 1,2-benzisothiazolin-3-one at 0.033%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00084% and 2-methyl-4-isothiazolin-3-one at 0.00030% as preservatives.

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 L – bulk

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

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).

XIVANA Prime is a broad-spectrum fungicide with preventative, systemic, and curative properties recommended for the control or suppression of certain crop diseases. XIVANA Prime is best suited for use in a preventative treatment program.

DIRECTIONS FOR USE:

Refer to the attached booklet for specific use directions for each crop and detailed instructions on rates, diseases controlled, application timing and technique.

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, smoking/vaping, 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. Aircraft cockpit and vehicle cabs must be decontaminated regularly.

DO NOT allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

DO NOT apply in greenhouses.

Apply only when the potential for drift beyond the area to be treated 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.

PROTECTIVE CLOTHING AND EQUIPMENT:

Follow the personal protective equipment requirements for the appropriate mixer/loader and applicator scenario as described in the table below.

Application Equipment	Personal Protective Equipment	
	Mixer/Loader/Clean-up and Repair Activities	Applicator
Handheld airblast/mistblower ¹	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.	Chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear.
All other application equipment ¹	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.	Long-sleeved shirt, long pants, chemical-resistant gloves ² , socks and shoes.

¹ For handheld application, wear eye, head and respiratory protection when applying above waist height, including overhead.

² Gloves are not required for application within a closed cab and/or cockpit.

RESTRICTED ENTRY INTERVAL:

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:

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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. DO NOT 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 or territorial requirements.

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial 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.

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.

XIVANA Prime[®] is a registered trademark of Bayer.



Booklet label

GROUP

49

FUNGICIDE

XIVANA PRIME®

SUSPENSION
FUNGICIDE

Fungicide for control or suppression of certain crop diseases

COMMERCIAL

REGISTRATION NO.: 35783 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:

Fluoxapiprolin 20.0 g/L

Contains 1,2-benzisothiazolin-3-one at 0.033%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00084% and 2-methyl-4-isothiazolin-3-one at 0.00030% as preservatives.

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 L – Bulk

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

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).

XIVANA PRIME

Table of Contents:		Section Number:
GENERAL INFORMATION	Notice to User	1
	The Product	2
SAFETY AND HANDLING	Precautions	3
	First Aid and Toxicological Information	4
	Environmental Precautions	5
	Storage	6
	Disposal	7
DIRECTIONS FOR USE	Application Information and Precautions	8
	Crop, Disease, Rate, Timing	9
	Rotational Crop Restrictions	10
	Mixing Instructions	11
	Resistance Management Recommendations	12

GENERAL INFORMATION

SECTION 1: 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

XIVANA Prime is a broad-spectrum fungicide with preventative, systemic, and curative properties recommended for the control or suppression of certain crop diseases. XIVANA 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, smoking/vaping, 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. Aircraft cockpit and vehicle cabs must be decontaminated regularly.

DO NOT allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

DO NOT apply in greenhouses.

Apply only when the potential for drift beyond the area to be treated 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.

PROTECTIVE CLOTHING AND EQUIPMENT:

Follow the personal protective equipment requirements for the appropriate mixer/loader and applicator scenario as described in the table below.

Application Equipment ¹	Personal Protective Equipment	
	Mixer/Loader/Clean-up and Repair Activities	Applicator
Handheld airblast/mistblower	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.	Chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear.
All other application equipment	Long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.	Long-sleeved shirt, long pants, chemical-resistant gloves ² , socks and shoes.

¹ For handheld application, wear eye, head and respiratory protection when applying above waist height, including overhead.

² Gloves are not required for application within a closed cab and/or cockpit.

RESTRICTED ENTRY INTERVAL:

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

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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. DO NOT 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 or territorial requirements.

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial 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

SECTION 8: APPLICATION INFORMATION AND PRECAUTIONS

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.

APPLICATION INFORMATION:

XIVANA Prime is highly active on downy mildew, late blight, and other oomycete diseases. For best results, begin applications as soon as crop and/or environmental conditions become favourable for disease development.

Thorough coverage of all plant parts to be protected is essential for good disease control. Use sufficient water volume and spray pressure to provide thorough and uniform coverage for optimum disease control.

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

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 for information before applying any tank mix that is not specifically recommended on this label.

Ground application equipment:

Fruit Crops (grape and Amur river grape): Apply XIVANA Prime by ground application equipment in a minimum spray volume of 500 L/ha, unless otherwise specified on the label.

Vegetable Crops (brassica head and stem vegetables, bulb vegetables, cucurbits, fruiting vegetables, leafy vegetables, leafy petiole vegetables, and potato): Apply XIVANA Prime by ground application equipment in a minimum spray volume of 100 L/ha.

Aerial application equipment:

Potatoes: Application by air is permitted only where specified on the label. Apply XIVANA Prime by aerial equipment in a minimum spray volume of 50 L/ha.

APPLICATION PRECAUTIONS:

Maximum yearly rate: Refer to crop specific restrictions and limitations. DO NOT apply more than the maximum yearly rate for each specific crop from any combination of products containing FLUOXAPIPROLIN.

SPRAY DRIFT MANAGEMENT:

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply when wind speed is less than 1 km/h. 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.

Conventionally piloted aircraft application: DO NOT apply when wind speed is less than 1 km/h. 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 sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotor span.

AERIAL APPLICATION-GENERAL INFORMATION:

1. Apply only by 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.
2. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate specified 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. If you have questions, call 1-888-283-6847 or obtain technical advice from the distributor or your provincial or territorial agricultural representative.
3. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a Global Positioning System (GPS).
4. Apply XIVANA Prime in a minimum of 50 L of water/ha for conventionally piloted aircraft.
5. To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.

AERIAL APPLICATION-USE PRECAUTIONS:

1. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage.
2. 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.

SPRAY BUFFER ZONES:

A spray buffer zone is NOT required for uses and application equipment permitted on this label.

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

SECTION 9: CROP, DISEASE, RATE, TIMING

CROP-SPECIFIC USE DIRECTIONS

BRASSICA HEAD AND STEM VEGETABLES (Crop Group 5-13): Broccoli; Brussels sprouts; Cabbage; Cabbage Chinese, napa; Cauliflower Including all cultivars, varieties, and hybrids of these commodities.		
Disease Control	Rate L/ha	Use Information
Downy mildew (<i>Peronospora parasitica</i> and <i>P. brassicae</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.
Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluoxapiprolin) per hectare per year (3L/ha/ year). XIVANA Prime has a pre harvest interval (PHI): 1 day. To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.		

BULB VEGETABLES (Crop Group 3-07):

Bulb Onions (Crop subgroup 3-07A): Bulb Daylily; Bulb Fritillaria; Bulb Garlic; Bulb Great-Headed Garlic; Bulb Serpent Garlic; Bulb Lily; Bulb Onion; Bulb Chinese Onion; Pearl Onion; Bulb Potato Onion; Bulb Shallot.

Green Onions (Crop subgroup 3-07B): Fresh Leaves Chive; Fresh Leaves Chinese Chive; Elegans Hosta; Leaves Fritillaria; Kurrat; Lady's Leek; Leek; Wild Leek; Beltsville Bunching Onion; Fresh Onion; Green Onion; Macrostem Onion; Tree Onion Tops; Welsh Onion Tops; Fresh Leaves Shallot.

Including all cultivars and/or hybrids of these.

Disease Control	Rate L/ha	Use Information
Downy mildew (<i>Peronospora destructor</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.

Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluoxapiprolin) per hectare per year (3L/ha/ year). **XIVANA Prime has a preharvest interval (PHI) of 1 day.** To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.

CUCURBIT VEGETABLES (Crop Group 9):

Melon (Crop subgroup 9A): Citron Melon; 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); Watermelon.

Squash/Cucumber (Crop subgroup 9B): Chayote (Fruit); Chinese Waxgourd; Cucumber; Gherkin; Gourd, Edible; Momordica spp.; Pumpkin; Squash, Summer; Squash, Winter.

Including all cultivars, varieties, and hybrids of these commodities.

Disease Control	Rate (L/ha)	Use Information
Downy mildew (<i>Pseudoperonospora cubensis</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rates.
Disease Suppressed	Rate L/ha)	Use Information
Phytophthora blight (<i>Phytophthora capsici</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rates.

Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluoxapiprolin) per hectare per year (3L/ha/ year). **XIVANA Prime has a preharvest interval (PHI) of 1 day.** To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.

FRUITING VEGETABLES (Crop Group 8-09):

Tomatoes (Crop subgroup 8-09A): Bush Tomato; Cocona; Currant Tomato; Garden Huckleberry; Goji Berry; Groundcherry; Naranjilla; Sunberry; Tomatillo; Tomato; Tree Tomato.

Peppers/Eggplants (Crop subgroup 8-09B): African Eggplant; Bell Pepper; Eggplant; Martynia; Nonbell Pepper; Okra; Pea Eggplant; Pepino; Roselle; Scarlet Eggplant.

Including all cultivars, varieties, and hybrids of these commodities.

Disease Control	Rate (L/ha)	Use Information
Late blight (<i>Phytophthora infestans</i>) Pepper Downy mildew (<i>Peronospora tabacina</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.
Disease Suppressed	Rate (L/ha)	Use Information
Phytophthora blight (<i>Phytophthora capsici</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.

Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluoxapiprolin) per hectare per year (3L/ha/ year). **XIVANA Prime has a preharvest interval (PHI) of 1 day.** To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.

GRAPE AND AMUR RIVER GRAPE:		
Disease Control	Rate (L/ha)	Use Information
Downy mildew (<i>Plasmopara viticola</i>)	0.75 – 1.0	When disease pressure is severe use the higher rate. Begin fungicide applications preventatively. 10 day minimum interval between applications.
Restriction: Apply by ground application equipment only. DO NOT exceed 40 g of active ingredient (fluoxapiprolin) per hectare per year (2L/ha/ year). Do not apply XIVANA Prime within 14 days of harvest. To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.		

LEAFY VEGETABLES (Crop Group 4-13):

Leafy Greens (Crop subgroup 4-13A): Amaranth, Chinese; amaranth, leafy; aster, Indian; blackjack; cat's whiskers; cham-chwi; cham-na-mul; chervil, fresh leaves; chipilin; chrysanthemum, garland; cilantro, fresh leaves; corn salad; cosmos; dandelion, leaves; dang-gwi, leaves; dillweed; dock; dol-nam-mul; ebolo; endive; escarole; fameflower; feather cockscomb; Good King Henry; huauzontle; jute, leaves; lettuce, bitter; lettuce, head; lettuce, leaf; orach; parsley, fresh leaves; plantain, buckhorn; primrose, English; purslane, garden; purslane, winter; radicchio; spinach; spinach, Malabar; spinach, New Zealand; spinach, tanier; Swiss chard; violet, Chinese, leaves; cultivars, varieties, and hybrids of these commodities.

Brassica Leafy Greens (Crop subgroup 4-13B): Arugula; broccoli, Chinese; broccoli raab; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; collards; cress, garden; cress, upland; hanover salad; kale; maca, leaves; mizuna; mustard greens; radish, leaves; rape greens; rocket, wild; shepherd's purse; turnip greens; watercress; cultivars, varieties, and hybrids of these commodities.

Disease Control	Rate (L/ha)	Use Information
Downy mildew (<i>Bremia lactucae</i>) (<i>Peronospora farinosa</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.

Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluoxapiprolin) per hectare per year (3L/ha/ year). **XIVANA Prime has a preharvest interval (PHI) of 1 day.** To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.

LEAFY PETIOLE VEGETABLES (Crop Subgroup 22B):

Cardoon; celery; celery, Chinese; fuki; rhubarb; udo; zuiki; cultivars, varieties, and hybrids of these commodities

Disease Control	Rate (L/ha)	Use Information
Downy mildew (<i>Peronospora umbellifarum</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.
Restrictions: Apply by ground application equipment only. DO NOT exceed 60 g of active ingredient (fluo xapi prolin) per hectare per year (3 L/ha/ year). XIVANA Prime has a preharvest interval (PHI) of 1 day. To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.		

POTATO:

Disease Control	Rate (L/ha)	Use Information
Late blight (<i>Phytophthora infestans</i>)	0.75 – 1.0	Begin fungicide applications preventatively. Continue as needed on a 7- to 14-day interval. When disease pressure is severe use the higher rate.
Restrictions: Apply by aerial or ground application equipment. DO NOT exceed 60 g of active ingredient (fluo xapi prolin) per hectare per year (3L/ha/ year). DO NOT apply XIVANA Prime within 7 days of harvest. To limit the potential for development of disease resistance to this fungicide class DO NOT make more than 2 sequential applications of XIVANA Prime or any Group 49 containing fungicide before rotating with a fungicide from a different Group. Note: The addition of an external non-ionic surfactant at 0.125% vol/vol may be added to Xivana Prime for improved efficacy.		

SECTION 10: ROTATIONAL CROP RESTRICTIONS:

DO NOT apply more than the maximum seasonal rate for each specific crop from any combination of products containing FLUOXAPIPROLIN.

ROTATIONAL CROPS

IMMEDIATE PLANT-BACK:

Treated areas may be replanted with any crop specified on this label. XIVANA Prime is labelled for use on the following crops: Brassica head and stem vegetables, Bulb vegetables, Cucurbit vegetables, Fruiting vegetables, Leafy vegetables, Leaf petiole vegetables, grape, Amur river grape, and potato.

30-DAY PLANT-BACK:

Strawberry

115-DAY PLANT-BACK:

Cereal grains

12-MONTH PLANT-BACK:

All other crops not listed above

DO NOT ROTATE:

Root vegetables (Subgroup 1A)

SECTION 11: MIXING INSTRUCTIONS

XIVANA Prime must be applied with properly calibrated, clean equipment.

Prior to adding XIVANA 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 XIVANA Prime to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.

SECTION 12: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, XIVANA Prime contains a Group 49 fungicide. Any fungal population may contain individuals naturally resistant to XIVANA Prime and other Group 49 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are 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 XIVANA Prime or other Group 49 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are effective on the target pathogen, when such use is permitted.
- When applied alone, avoid consecutive applications of XIVANA Prime or other Group 49 fungicides in a season. Alternate applications with fungicides having a different mode of action. When applied in a mixture, apply a maximum of 2 sequential applications.
- 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.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development.
- 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 with a different target 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 specific crops and disease 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.

XIVANA Prime[®] is a registered trademark of Bayer.