

2015-6287
2015-12-14



GROUP	5	FUNGICIDE
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Priwen 500 EC Fungicide

For control of powdery mildew in wine grapes.

EMULSIFIABLE CONCENTRATE

AGRICULTURAL

GUARANTEE: Spiroxamine.....500 g/L

REGISTRATION NO. 31959
PEST CONTROL PRODUCTS ACT

WARNING - POISON

SEVERE EYE AND SKIN IRRITANT

POTENTIAL SKIN SENSITIZER

{insert symbol: Skull and Crossbones with Square-on-Point Border}

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING

NET CONTENTS: 500 mL to 1,000 L

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

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies, call:
1-800-334-7577 (24 hours a day)

GENERAL INFORMATION

Priwen 500 EC Fungicide contains the fungicide spiroxamine, and is effective in controlling powdery mildew in wine grapes.

NOTICE TO USER: This control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful or fatal if swallowed. Harmful if inhaled. Avoid inhaling or breathing dust spray. Severely irritating to the eye. **DO NOT** get in eyes. Causes skin and mucous membrane irritation. Do not get on skin. Potential skin sensitizer. 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.

Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.

If this pest control product is to be used on a commodity that may be exported to the United States and you require information on acceptable residue levels in the United States, visit CropLife Canada's website at www.croplife.ca.

PROTECTIVE CLOTHING AND EQUIPMENT:

Applicators and all other handlers (including mixers, loaders, and other workers involved in clean-up and repairs) must wear long pants, a long-sleeved shirt, chemical-resistant gloves made of waterproof material, socks, shoes, and goggles.

In addition, all applicators driving an open-cab tractor must wear a chemical-resistant headgear. Chemical-resistant headgears include Sou'Wester hats or large brimmed waterproof hats, and hoods with sufficient neck protection.

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:

There is no specific antidote if this product is ingested. Treat symptomatically.

ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

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 strip between the treated area and the edge of the water body.

STORAGE:

To prevent contamination store this product away from food or feed. Store product in original container only, in a cool, dry place and avoid excessive heat. Keep container closed.

DISPOSAL:

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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 clean-up of spills.

FOR RECYCLABLE CONTAINERS:

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 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.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

FOR 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).

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 use this container for any other purpose.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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FOR MORE INFORMATION CONTACT:

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

Priwen 500 EC Fungicide is registered trademark of Bayer CropScience.



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FOR MORE INFORMATION CONTACT:

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GENERAL INFORMATION

SECTION 1: NOTICES

NOTICE TO USER: This control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

SECTION 2: THE PRODUCT

Priwen 500 EC Fungicide contains the fungicide spiroxamine, and is effective in controlling powdery mildew in wine grapes.

SAFETY AND HANDLING

SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful or fatal if swallowed. Harmful if inhaled. Avoid inhaling or breathing dust spray. Severely irritating to the eye. DO NOT get in eyes. Causes skin and mucous membrane irritation. Do not get on skin. Potential skin sensitizer. 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.

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Applicators and all other handlers (including mixers, loaders, and other workers involved in clean-up and repairs) must wear long pants, a long-sleeved shirt, chemical-resistant gloves made of waterproof material, socks, shoes, and goggles.

In addition, all applicators driving an open-cab tractor must wear a chemical-resistant headgear. Chemical-resistant headgears include Sou'Wester hats or large brimmed waterproof hats, and hoods with sufficient neck protection.

RE-ENTRY RESTRICTION:

Do not enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) noted in the following table.

Re-Entry Activity	REI¹
Transplanting, scouting, hand pruning, hand weeding, propagating, bird control, trellis repairs	12 hours ²
Irrigation (hand set)	3 days
Tying/training, hand harvesting, leaf pulling	17 days
Girdling, turning	24 days

¹ REI = Restricted entry interval

² A minimum of 12 hours is applicable for all agricultural workers to allow residues to dry and vapor to dissipate, hence limiting potential effects such as irritation or allergic reactions.

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:

There is no specific antidote if this product is ingested. Treat symptomatically.

SECTION 5: ENVIRONMENTAL PRECAUTIONS AND INFORMATION

ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

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 strip between the treated area and the edge of the water body.

SECTION 6: STORAGE

To prevent contamination store this product away from food or feed. Store product in original container only, in a cool, dry place and avoid excessive heat. Keep container closed..

SECTION 7: DISPOSAL

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer of the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

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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 use 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 clean-up of spills.

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.

DO NOT apply by air.

DO NOT apply to table grapes due to the potential for adverse superficial effects.

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.

Buffer zones:

Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

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 Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Wine Grapes		5	1	4	2
Airblast	Wine Grapes	Early growth stage	40	10	35	25
		Late growth stage	30	5	25	15

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.

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

Do not apply with an adjuvant.

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 Bayer CropScience Inc. at 1-888-283-6847 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 Bayer CropScience Inc

SECTION 9: CROP, DISEASE, RATE, TIMING

WINE GRAPES		
Disease Control	Rate mL/ha	Use Information
Powdery mildew (<i>Uncinula necator</i>)	400 - 600	<p>Use Priwen 500 EC Fungicide to provide approximately 14 days of protection as part of a preventative spray schedule.</p> <p>Priwen 500 EC Fungicide may be applied any time during the period from shoot emergence until 35 days before harvest.</p> <p>Allow 14 days between applications.</p> <p>Use the higher rate when conditions favour the development of heavy disease pressure or in vineyards with a history of heavy disease pressure.</p> <p>Do not apply more than 1.2 L of Priwen 500 EC Fungicide per hectare per season.</p> <p>Apply in sufficient water for thorough coverage of vines and fruit.</p> <p>Other fungicides registered for control of powdery mildew in grapes should be used, as appropriate, in conjunction with Priwen 500 EC Fungicide to achieve season long powdery mildew control.</p> <p>DO NOT apply to table grapes due to the potential for adverse superficial effects.</p>

SECTION 10: PREHARVEST INTERVALS

Do not apply within 35 days of harvest of grapes.

SECTION 11: MIXING INSTRUCTIONS

Priwen 500 EC Fungicide must be applied with properly calibrated, clean equipment.

Prior to adding Priwen 500 EC Fungicide 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 Priwen 500 EC Fungicide 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, Priwen 500 EC Fungicide contains a Group 5 fungicide. Any fungal population may contain individuals naturally resistant to Priwen 500 EC Fungicide and other Group 5 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:

- Avoid consecutive applications of Priwen 500 EC Fungicide or other Group 5 fungicides in a season. Alternate applications with fungicides having a different mode of action and that are effective on the same pathogen.
- Use tank mixtures with fungicides from a different group that are effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated pest management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact or 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. Notify Bayer CropScience Inc. if reduced sensitivity of the pathogen to Priwen 500 EC Fungicide 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 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 CropScience representative at 1-888-283-6847 or at www.bayercropscience.ca.

FOR MORE INFORMATION CONTACT:

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