

2014-5998  
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**PHOSTROL™ Fungicide**

FUNGICIDE  
COMMERCIAL  
LIQUID

GROUP	<b>33</b>	FUNGICIDE
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A FUNGICIDE FOR USE ON BRASSICA LEAFY VEGETABLES, RASPBERRIES, POME FRUIT, CUCURBITS, GRAPES, LEAFY GREENS, POTATOES, STRAWBERRIES, TOMATO CROPS, GINSENG, INDOOR AND OUTDOOR ORNAMENTALS, AND TURF

GUARANTEE: Mono- and dibasic sodium, potassium, and ammonium phosphites..... 53.6%

**CAUTION – SKIN IRRITANT**

**KEEP OUT OF REACH OF CHILDREN**

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

REGISTRATION NO.: 30449  
PEST CONTROL PRODUCTS ACT

**Net Contents: 0.1-1050 L, bulk**

Engage Agro Corporation  
1030 Gordon St.  
Guelph, ON  
N1G 4X5

™ PHOSTROL is a trademark of Engage Agro Corporation

**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. The user assumes the risk to persons or property that arises from any such use of this product.

**FIRST AID:**

- IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
- 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 the person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
- IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have the 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.

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 for this product. Treat symptomatically.

**ENVIRONMENTAL HAZARDS:**

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.

***IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL***

***1-866-336-2983***

## **PRECAUTIONS:**

### **KEEP OUT OF THE REACH OF CHILDREN.**

Avoid breathing vapour or spray mist. Do not swallow or allow to absorb through the skin. May irritate skin. Avoid contact with eyes, skin or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash separately from other laundry before reuse.

**Applicators, mixers, loaders and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks and protective eyewear. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protection equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Keep and wash PPE separately from other laundry.

Do not graze treated fields or feed treated forage or hay to livestock.

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

### **AERIAL APPLICATION USE PRECAUTIONS**

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

#### **Use Precautions**

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

#### **Operator Precautions**

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

#### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (866) 613-3336 or obtain technical advice from the distributor or your provincial agricultural representative. Apply the recommended rate in a minimum spray volume of 50 litres per hectare.

## **DISPOSAL/DECONTAMINATION:**

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.

### **Container Disposal**

#### **Recyclable container**

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. Empty container thoroughly into spray tank. 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 site in your area, dispose of the container in accordance with provincial requirements

#### **Refillable Container**

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.

## **STORAGE:**

Store in a cool, dry, secure and well ventilated area. To prevent contaminations store this product away from food or feed. Keep pesticide in original container. Not for use or storage in or around the home. Do not store near open flame.

## **RESISTANCE MANAGEMENT:**

For resistance management, please note that PHOSTROL™ FUNGICIDE contains a Group 33 fungicide. Any fungal population may contain individuals naturally resistant to PHOSTROL™ FUNGICIDE and other Group 33 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. 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 PHOSTROL™ FUNGICIDE or other Group 33 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- 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. Notify Engage Agro Corporation if reduced sensitivity of the pathogen to Phostrol 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 advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Engage Agro Corporation at 1-866-613-3336 or at [www.engageagro.com](http://www.engageagro.com).

## DIRECTIONS FOR USE

### GENERAL INFORMATION

PHOSTROL™ FUNGICIDE controls various pathogens on brassica leafy vegetables, raspberries, Pome Fruit, cucurbits, grapes, lettuce, potatoes, strawberries, tomato crops, ginseng, outdoor and indoor ornamental plants, and turf. When applied as directed, PHOSTROL™ FUNGICIDE will protect labeled crops from yield and quality loss due to crop diseases. PHOSTROL™ FUNGICIDE may be applied by ground on all labelled crops. PHOSTROL™ FUNGICIDE may be applied either by ground or air on potatoes.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

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

### GENERAL INSTRUCTIONS

- Mixing this product with certain surfactants, foliar fertilizers, or other pesticides can cause crop injury. Determine crop sensitivity by applying the combination to a small area of the crop and evaluate 3-7 days later for adverse effects.
- Applying PHOSTROL™ FUNGICIDE with other products when temperatures are above 32 °C, shortly after a rain event or during color break of the fruit may result in potential fruit burn. Apply with extreme caution when these conditions exist.
- **DO NOT** apply by air except where labeled under crop specific directions for use.
- A re-entry period of 12 hours is recommended for all labeled uses with the exception of turf. Re-entry for turf uses is when the pesticide spray solution has dried.

## MIXING INSTRUCTIONS

1. Prior to mixing, clean the spray tank by following the sprayer clean-up recommendations on the previously sprayed product label.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of PHOSTROL™ FUNGICIDE to the tank.
4. Continue agitation while filling tank to the desired spray volume.
5. Maintain agitation during mixing and spraying. DO NOT allow the spray mixture to stand without agitation.
6. After use, thoroughly rinse and clean the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

## TANK MIXING INSTRUCTIONS

PHOSTROL™ FUNGICIDE may be tank mixed with the fungicides listed in the tables. Ensure use of the most restrictive label limitations and precautions when applying PHOSTROL™ FUNGICIDE with other tank mix partners. Do not tank mix PHOSTROL™ FUNGICIDE with any product that has a label warning against such mixing. Apply tank mixtures at the labeled rates of the targeted pest. Determine crop sensitivity prior to use of PHOSTROL™ FUNGICIDE and its tank mix partner.

DIRECTIONS FOR USE ON POTATOES			
Crop	Pest	Rate (L/ha)	Remarks
Potato	Suppression of Pink Rot ( <i>Phytophthora erythroseptica</i> )	5.8-11.6	In Furrow: Apply in a band at planting directly over the seed pieces prior to row closure.  PHOSTROL™ FUNGICIDE may be applied in combination with a tank mix partner listed in the table below*. Read and follow the use directions on the individual product labels.
	Late Blight ( <i>Phytophthora infestans</i> )	2.9-11.6	Foliar Applications: For preventative control of late blight and preventative suppression of pink rot, begin applications, by ground or air, when conditions favouring disease development exist and continue on a 7-14 day interval.
	Suppression of Pink Rot ( <i>Phytophthora erythroseptica</i> )	5.8-11.6	PHOSTROL™ FUNGICIDE may be applied in combination with a tank mix partner listed in the table below*. Read and follow the use directions on the individual product labels.
	Late Blight ( <i>Phytophthora infestans</i> )  Pink Rot ( <i>Phytophthora erythroseptica</i> )	0.42 L in 2L water to 1 tonne tubers	Post harvest control: Apply directly to the tubers and ensure complete and even coverage.

<p>In furrow application: Apply PHOSTROL™ FUNGICIDE in a minimum of 30 L water/ha.  Foliar applications: Apply PHOSTROL™ FUNGICIDE in a minimum of 200 L water/ha.  Aerial applications: Apply PHOSTROL™ FUNGICIDE in a minimum of 50 L water/ha.</p> <p>PHOSTROL™ FUNGICIDE can be applied up to the day of harvest and post harvest. Use the higher rate and shorter application interval when disease pressure is moderate to high. Do not make more than 7 applications during the growing season.</p> <p><b>*Tank-mix partners:</b></p>		
Pink rot	in furrow	Ridomil Gold 480SL
	foliar	Ridomil Gold MZ 68WP Water Soluble Bag, Ridomil Gold MZ 68WG, Ridomil Gold Bravo Twin Pack
Late blight	foliar	Bravo 500, Bravo ZN, Echo 720, Echo 90DF, Ridomil Gold Bravo Twin Pack, Dithane F-45, Dithane DG 75, Dithane DG Rainshield NT, Manzate Pro-Stick, Gavel 75DF, Penncozeb 75 DF

DIRECTIONS FOR USE ON GRAPES			
Crop	Pest	Rate (L/ha)	Remarks
Grape, cultivars and/or hybrids	Downy Mildew ( <i>Plasmopara viticola</i> )	2.9-5.8	For preventative control of downy mildew, begin foliar applications when conditions favouring disease development exist and continue on a 7-day interval, when required.
<p>Apply PHOSTROL™ FUNGICIDE in a minimum of 500 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Use the higher rate when disease pressure is moderate to high. Due to varietal sensitivity, determine crop sensitivity prior to use of PHOSTROL™ FUNGICIDE. Do not make more than 4 applications during the growing season.</p>			

DIRECTIONS FOR USE ON LEAFY GREENS			
Crop	Pest	Rate (L/ha)	Remarks
Head and leaf lettuce, upland cress, endive, radicchio (red chicory)	Downy Mildew ( <i>Bremia lactucae</i> )	2.9-5.8	For preventative control of downy mildew in leafy greens, begin foliar applications when conditions favouring disease development exist and continue on a 7-14 day interval, if needed.
<p>Apply PHOSTROL™ FUNGICIDE in a minimum of 225 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Use the higher rate and shorter application interval when disease pressure is moderate to high. Do not make more than 7 applications during the growing season.</p>			

<b>DIRECTIONS FOR USE ON STRAWBERRIES</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Strawberry	Leather Rot ( <i>Phytophthora cactorum</i> )	4.1	For preventative control of leather rot, begin foliar applications at 10% bloom and early fruit set and continue on a 7-14 day interval if conditions favouring disease development exist.
Apply PHOSTROL™ FUNGICIDE in a minimum of 225 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to 3 days before harvest. Under moderate to heavy disease pressure, or on varieties that are susceptible to disease, use the shorter application interval. Do not make more than 4 applications during the growing season.			

<b>DIRECTIONS FOR USE ON POME FRUIT CROP GROUP 11-09</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Apple, Azarole, Crabapple, Mayhaw, Medlar, Pear, Asian Pear, Quince, Chinese Quince, Japanese Quince, Tejocote, Cultivars, varieties and/or hybrids of these commodities.	Fly Speck ( <i>Schizothyrium pomi</i> ) Sooty Blotch ( <i>Gloeodes pomigena</i> )	4.4	For preventative control of fly speck and sooty blotch begin foliar applications after petal fall and continue on a 7-14 day interval if conditions favouring disease development exist.
Apply PHOSTROL™ FUNGICIDE in a minimum of 1000 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Under moderate to heavy disease pressure, or on varieties that are susceptible to disease, use the shorter application interval. Do not make more than 6 applications during the growing season.			

<b>DIRECTIONS FOR USE ON BRASSICA LEAFY VEGETABLES CROP GROUP 5</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Broccoli, Chinese broccoli, Broccoli raab, Brussels sprouts, cabbage, Chinese cabbage (napa, bok choy), Chinese mustard cabbage (gai choy), cauliflower, cavolo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens	Suppression of Downy Mildew ( <i>Peronospora parasitica</i> )	2.9-5.8	For preventative suppression of downy mildew, begin foliar applications when conditions favouring disease development exist and continue on a 7-21 day interval.
Apply PHOSTROL™ FUNGICIDE in a minimum of 225 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Use the higher rate and shorter application interval when disease pressure is moderate to high. Do not apply more than 4 applications per year.			



<b>DIRECTIONS FOR USE ON RASPBERRIES</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Black and red raspberry, wild raspberry and cultivars, varieties and/or hybrids of these.	Suppression of Phytophthora Root Rot ( <i>Phytophthora</i> spp.)	5.2	<p>Spring Foliar Applications: For preventative suppression of phytophthora root rot in new plantings, begin applications when the plants produce new growth of 1-3 inches. In established plantings, begin application when conditions favouring disease development exist and continue on a 45-60 day interval.</p> <p>Fall Foliar Applications: For preventative suppression of root rot caused by the genus <i>Phytophthora</i>, begin applications when conditions favouring disease development exist and continue, if required, on a 21-28 day interval.</p>
Apply PHOSTROL™ FUNGICIDE in a minimum of 400 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Use the higher rate and shorter application interval when disease pressure is high. Do not make more than 4 applications during the growing season.			

<b>DIRECTIONS FOR USE ON CUCURBIT VEGETABLES</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Chinese waxgourd, citron melon, cucumber, gherkin, edible gourd, <i>Momordica</i> spp., muskmelon, pumpkin, summer and winter squash, watermelon.	Suppression of Downy Mildew ( <i>Pseudoperonospora cubensis</i> )	2.9-5.8	<p>For preventative suppression of downy mildew in cucurbit vegetables, begin foliar applications when conditions favouring disease development exist and continue on a 7-14 day interval.</p> <p>PHOSTROL™ FUNGICIDE may be tank mixed with Bravo 500, Bravo 720 or Bravo Ultrex. Read and follow the use directions on the individual product labels.</p>
Apply PHOSTROL™ FUNGICIDE in a minimum of 225 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Use the higher rate and shorter application interval when disease pressure is high. Do not make more than 7 applications during the growing season.			

<b>DIRECTIONS FOR USE ON TOMATO CROP SUB-GROUP 8-09A</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Bush tomato, currant tomato, garden huckleberry, goji berry, groundcherry, sunberry, tomatillo, tomato, cultivars, varieties and hybrids of these commodities	Suppression of Late Blight ( <i>Phytophthora infestans</i> )	2.9-5.8	Begin foliar applications immediately after transplanting to the field. Continue on a 7-14 day interval if conditions favouring disease development exist.
Apply PHOSTROL™ FUNGICIDE in a minimum of 225 L water/ha and ensure thorough coverage of the foliage. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Under moderate to heavy disease pressure, use the higher rate and shorter application interval. Do not make more than 4 applications during the growing season.			

<b>NOTICE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:</b>			
<p>The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Engage Agro Corporation and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. Engage Agro Corporation itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.</p> <p>Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Engage Agro Corporation harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.</p>			
<b>DIRECTIONS FOR USE ON GINSENG</b>			
<b>Crop</b>	<b>Pest</b>	<b>Rate (L/ha)</b>	<b>Remarks</b>
Ginseng	Suppression of Foliar and Root Rot ( <i>Phytophthora cactorum</i> )	5.6	For preventative suppression of of phytophthora root rot, begin foliar applications when environmental conditions first become conducive to disease development and continue on a 7 day interval if disease conditions persist.
Apply 5.6 L Phostrol in 1000 L water per Ha. When applying in lower water volumes, do not use more than 1L product per 100 L of water and do not exceed the maximum rate of 5.6 L/ha per application. Ensure thorough coverage of the foliage and root zone. PHOSTROL™ FUNGICIDE can be applied up to the day of harvest. Do not make more than 9 applications during the growing season.			

DIRECTIONS FOR USE ON ORNAMENTALS			
Crop	Pest	Rate (L/ha)	Remarks
Greenhouse-grown and outdoor bedding plants, potted plants and cut flowers	Suppression of Phytophthora Root rot ( <i>Phytophthora</i> spp.)	2.9-5.8L/1000 L of water	For preventative suppression of phytophthora root rot, begin foliar applications when conditions favouring disease development exist and continue on a 30 day interval, if needed. Do not use more than 3750 L of water/ha. Do not apply more than once every 30 days.
		1.2-5.6 L/1000 L of water	Drench Application: For preventative suppression of phytophthora root rot, apply 10 L of solution per m <sup>2</sup> . Repeat applications, on a 30 day interval, if needed. Do not apply more than once every 30 days.
Apply PHOSTROL™ FUNGICIDE in a minimum of 1000 L water/ha and ensure thorough coverage of the foliage. Under moderate to heavy disease pressure, use the higher rate. Determine crop sensitivity prior to use of PHOSTROL™ FUNGICIDE in ornamental plants. Do not make more than 6 applications during the growing season.			

DIRECTIONS FOR USE ON TURF			
Turf	Pest	Rate (mL/100m <sup>2</sup> )	Remarks
Golf courses, sod farms, municipal, industrial and residential turf.	Suppression of Pythium blight ( <i>Pythium aphanidermatum</i> ) and Anthracnose ( <i>Colletotrichum cereale</i> )	130-260	For preventative suppression of pythium blight and anthracnose, begin foliar applications when conditions favouring disease development exist and continue on a 14 day interval, if needed. Use 4 - 20 L water/100 m <sup>2</sup> .
Do not mow or water the treated area until sprays have dried. Under moderate to heavy disease pressure, use the higher rate, Do not make more than 4 applications during the growing season.			