

**GROUP 3 FUNGICIDE**

# BANNER MAXX® Fungicide

COMMERCIAL

EMULSIFIABLE CONCENTRATE

TURF FUNGICIDE

For control of certain diseases in golf course turf, nursery crops and outdoor ornamental maples.

**GUARANTEE:**

Propiconazole ..... 14.3%

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

CAUTION



POISON

**WARNING – EYE IRRITANT**

REGISTRATION NO. **27003**  
PEST CONTROL PRODUCTS ACT

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Pamphlet

## 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 POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 15–20 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.

## TOXICOLOGICAL INFORMATION

**Note to Physician:** There is no specific antidote for this product. Treat symptomatically.

## PRECAUTIONS

- KEEP OUT OF THE REACH OF CHILDREN.
- **For turf uses**, KEEP PEOPLE OFF TREATED AREA UNTIL FOLIAGE IS DRY.
- Harmful if swallowed. Causes eye irritation. DO NOT get in eyes.
- Wear long pants, a long sleeve shirt, shoes and socks and chemical resistant gloves during mixing/loading, application, clean-up and repair activities.
- DO NOT use leather or cloth gloves. Rinse gloves with soap and water before removal and wash hands.
- Wear protective goggles or face shield as well as a protective apron when handling the concentrated product during mixing and loading.
- Do not eat, drink or smoke during application; wash hands and face thoroughly immediately following each application of this product.
- Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and eyes.
- After work, change clothing and wash entire body thoroughly.

- Wash contaminated clothes separately from other laundry before reuse.
- Do not contaminate food or feed.
- Do not graze livestock on treated areas.
- Do not feed clippings from treated areas to livestock or poultry.
- This pesticide is toxic to fish and other aquatic organisms. Do not spray any body of water by direct application, drift or by cleaning and rinsing spray equipment.
- Do not use or store near heat or open flame.
- **For ornamental and nursery crop uses**, DO NOT allow entry into treated area for 12 hours following application. See the DIRECTIONS FOR USE section for crop specific restricted entry intervals.

DO NOT APPLY BY AIR.

### **ENVIRONMENTAL HAZARDS**

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

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with 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.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application sites such as hedgerows and woodland.

### **STORAGE**

1. Do not use or store near heat or open flame.
2. Keep from freezing.
3. Store in original container in a secured, dry storage area.
4. To prevent contamination store this product away from food or feed.
5. Prevent cross contamination with other pesticides.

### **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.

### **CONTAINER DISPOSAL:**

**For recyclable containers for commercial use:**

**DO NOT** reuse this container for any other 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 or dispose of the rinsings in accordance with provincial requirements.
2. Make the empty, rinsed container unsuitable for further use.

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

**For refillable containers for commercial use:**

**DO NOT** reuse this container for any other purpose. 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.

**For returnable containers commercial use:**

**DO NOT** reuse this container for any other purpose. This empty container may be returned to the point of purchase (distributor/dealer) for disposal.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

**DIRECTIONS FOR USE**

BANNER MAXX<sup>®</sup> Fungicide is a broad spectrum systemic fungicide for control of various diseases on turf grasses and nursery crops.

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

DO NOT apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

DO NOT use in greenhouses.

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.

DO NOT apply by air.

### 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 terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), 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:				Terrestrial habitat
			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 <sup>1</sup>	Turf, golf courses		3	1	4	2	4
	Christmas trees (spruce and fir)		1	0	1	0	1
Airblast	Christmas trees (spruce and fir)	Early growth stage	1	0	2	0	2
		Late growth stage	1	0	1	0	2

<sup>1</sup> For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zones can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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.

### Mixing Instructions:

#### **BANNER MAXX Fungicide Only**

Fill the spray tank 1/2 - 3/4 full with water.

Add the proper amount of BANNER MAXX Fungicide and then add the rest of the water.

Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

### **Tank Mixtures - Pesticides:**

BANNER MAXX Fungicide can be tank mixed with **ONLY ONE** of the following partners: DACONIL 2787® Flowable Fungicide or HERITAGE™ Fungicide or PRIMO MAXX® Plant Growth Regulator. Read the label of DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide or PRIMO MAXX Plant Growth Regulator and follow the precautionary statement, directions for use (rates, diseases controlled and application intervals) and other restrictions.

1. Always check the compatibility of a BANNER MAXX tank mix using a jar test with proportionate amounts of BANNER MAXX Fungicide or DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide or PRIMO MAXX Plant Growth Regulator, and the water, before mixing in the spray tank.
2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
3. Fill tank at least 1/2 full of clean water.
4. If using HERITAGE Fungicide as a tank mix partner add HERITAGE Fungicide first then add BANNER MAXX next.
5. If using DACONIL 2787 Flowable Fungicide as a tank mix partner, add BANNER MAXX first then DACONIL 2787 Flowable Fungicide next.
6. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

#### **TURFGRASS DISEASE CONTROL**

1. USE BANNER MAXX Fungicide IN A PREVENTATIVE DISEASE CONTROL PROGRAM.
2. Apply in sufficient water to ensure thorough coverage (3 - 15 L per 100 m<sup>2</sup>).
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For control of soil-borne diseases, apply BANNER MAXX Fungicide in higher spray volumes (13 - 21 L of water per 100 m<sup>2</sup>). If this is not possible, then BANNER MAXX Fungicide can be watered in after application (0.60 cm of water prior to drying of the spray application).
6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
7. For optimum turf quality and disease control, use BANNER MAXX Fungicide in conjunction with turf management practices that promote good plant health and optimum disease control.
8. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
9. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
10. When treating greens, always treat aprons and fairway approaches.
11. Do not apply more than 473 mL/100m<sup>2</sup>/year.

**NOTE:** Do not graze animals on treated areas. Do not feed clippings from treated areas to livestock or poultry.

**TURFGRASS – SPRAY SCHEDULE**

<b>TURFGRASS</b>	
<b>DISEASE</b>	<b>Dollar Spot</b> ( <i>Sclerotinia homoeocarpa</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	26 - 51
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	21 - 28 days
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide during periods of humid, warm days and cool nights that result in heavy dew formation. Nitrogen deficiency and drought stress also promote the disease. 1) BANNER MAXX Fungicide can be tank-mixed (see mixing instructions) with DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide, <b>OR</b> 2) Rotated with fungicides which have a different mode of action. Do not apply more than 6 applications per season.
<b>DISEASE</b>	<b>Anthracnose</b> ( <i>Colletotrichum graminicola</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	26 - 51
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	21 days
<b>INSTRUCTIONS</b>	Apply when warm, humid weather conditions occur. Areas of compaction, poor soil drainage, excess thatch, or with large amounts of <i>Poa annua</i> favour the development of anthracnose. Do not apply more than 3 applications per season.
<b>DISEASE</b>	<b>Red Thread</b> ( <i>Laetisaria fuciformis</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	51
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	14 days
<b>INSTRUCTIONS</b>	Apply when cool, wet conditions occur. Prolonged periods of high-humidity air favour the development of the disease. Do not apply more than 3 applications per season.
<b>DISEASE</b>	<b>Brown Patch</b> ( <i>Rhizoctonia solani</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	51 – 103
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	14 days
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide preventively when conditions favour disease development (high surface moisture or humidity and warm night temperatures). Use the higher rate under severe disease pressure. Do not apply BANNER MAXX Fungicide if disease symptoms are present. Do not apply more than 6 applications per season.

<b>TURFGRASS</b>	
<b>DISEASE</b>	<b>Waitea Patch</b> ( <i>Waitea circinata</i> var. <i>circinata</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	51 - 103
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	14 days
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide preventively when conditions are favourable for disease development, i.e., warmer temperatures between 20 to 30°C and during periods of high humidity and extended leaf wetness. Use the higher rate under severe disease pressure. Do not apply more than 3 applications per season.
<b>DISEASE</b>	<b>Leaf Spot &amp; Melting Out</b> ( <i>Bipolaris sorokiniana</i> , <i>Drechslera poae</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	51 - 103
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	14 days
<b>INSTRUCTIONS</b>	Under light to moderate disease pressure, apply BANNER MAXX Fungicide to reduce the severity of leaf spot and melting out caused by <i>Drechslera</i> spp. ( <i>Helminthosporium</i> ) pathogens. Do not apply more than 3 applications per season.
<b>DISEASE</b>	<b>Summer Patch</b> ( <i>Magnaporthe poae</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	103
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	30 days
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide on a preventative basis. The first application should be when the soil temperature is greater than 16°C at a 5 cm depth for 4 consecutive days with a second application 30 days later. A third application may be required if hot, humid weather occurs. Apply BANNER MAXX Fungicide with 13 - 21 L of water per 100 m <sup>2</sup> . Do not apply more than 3 applications per season.
<b>DISEASE</b>	<b>Gray Snow Mould</b> ( <i>Typhula incarnate</i> , <i>T. isikariensis</i> ) <b>Pink Snow Mould</b> ( <i>Microdochium nivale</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	206
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	Late Fall
<b>INSTRUCTIONS</b>	Apply one application in the late fall before snow cover. Do not apply on top of snow or when the temperature is below 0°C. Do not apply more than 1 application per season.
<b>DISEASE</b>	<b>Fusarium Patch</b> ( <i>Fusarium nivale</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	51 - 103
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	30 days
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide in the fall or early spring during cool, wet weather. Use the high rate only under high disease pressure. Do not apply more than 2 applications per season.

<b>TURFGRASS</b>	
<b>DISEASE</b>	<b>Yellow patch</b> ( <i>Rhizoctonia cerealis</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	77 - 103
<b>INSTRUCTIONS</b>	Apply one application in the late fall before snow cover. Do not apply on top of snow. Do not apply more than 1 application per season.

\*Expected length of control when used in a preventative disease control program.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

**NURSERY CROPS**

- Do not apply BANNER MAXX Fungicide through any type of irrigation system.
- DO NOT add surfactants or wetting agents as this may result in phytotoxicity.
- Apply every 14 days. Do not exceed more than 4 applications per year.
- BANNER MAXX Fungicide can be tank mixed with DACONIL 2787 Fungicide. Read the DACONIL 2787 label and follow the directions for use.

<b>NURSERY CROPS (Minor Uses)</b>	
<b>CROP</b>	<b>Dogwood, Maple</b>
<b>DISEASE</b>	Anthracnose ( <i>Discula destructiva</i> )
<b>PRODUCT RATE (mL/100 L water)</b>	28
<b>CROP</b>	<b>Crabapple, Nonbearing Apple, Pyracanthas</b>
<b>DISEASE</b>	Apple Scab ( <i>Venturia inaequalis</i> )
<b>PRODUCT RATE (mL/100 L water)</b>	14
<b>CROP</b>	<b>Roses, Azalea, Rhododendron</b>
<b>DISEASE</b>	Powdery Mildew ( <i>Sphaerotheca pannosa</i> )
<b>PRODUCT RATE (mL/100 L water)</b>	35
<b>CROP</b>	<b>Roses</b>
<b>DISEASE</b>	Black Spot ( <i>Diplocarpon rosae</i> )
<b>PRODUCT RATE (mL/100 L water)</b>	33

<b>GOLF COURSE TURF (Minor Use)</b>	
<b>DISEASE</b>	<b>Take-all patch</b> ( <i>Gaeumannomyces graminis var. avenae</i> )
<b>PRODUCT RATE (mL/100 m<sup>2</sup>)</b>	64 - 127
<b>APPLICATION INTERVAL / DURATION OF CONTROL*</b>	Spring and Fall Make 1-2 fall applications in September and October or when night temperatures drop to 13°C, and 1-2 spring applications in April and May.
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide preventively when conditions favour disease development (high surface moisture or humidity and warm night temperatures). DO NOT exceed more than 4 applications per year. DO NOT add surfactants or wetting agents as this may result in phytotoxicity.
<b>CHRISTMAS TREES (SPRUCE AND FIR)</b>	
<b>DISEASE</b>	Rhizosphaera needle cast ( <i>Rhizosphaera kalkhoffii</i> ) on spruce and fir Stigmina needle cast ( <i>Stigmina lautii</i> ) on spruce Lirula needle cast ( <i>Lirula nervata</i> ) on balsam fir
<b>PRODUCT RATE (mL/1000 L water)</b>	350
<b>APPLICATION INTERVAL / DURATION OF CONTROL</b>	The first application is to be made when shoot emergence is less than 5 cm, and subsequent applications at 7 to 10-day intervals until conditions no longer favour disease development.
<b>INSTRUCTIONS</b>	Apply BANNER MAXX Fungicide preventively when conditions favour disease development.  DO NOT exceed more than 3 applications per year.  DO NOT add surfactants or wetting agents as this may result in phytotoxicity.  Apply as a foliar application only.
<b>OUTDOOR ORNAMENTAL MAPLES</b>	
<b>DISEASE</b>	Tar spot caused by <i>Rhytisma acerinum</i>
<b>RATE OF BANNER MAXX FUNGICIDE (mL per 100 L water)</b>	28 Spray to runoff (minimum 500L/ha)
<b>TIMING OF APPLICATION AND APPLICATION INTERVAL</b>	Start preventatively when conditions favour disease. Apply every 14 days.
<b>INSTRUCTIONS</b>	DO NOT exceed more than 4 applications per year.  DO NOT apply through any type of irrigation system.  DO NOT add surfactants or wetting agents as this may result in phytotoxicity.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that BANNER MAXX Fungicide contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to BANNER MAXX Fungicide and other group 3 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 BANNER MAXX Fungicide or other group 3 fungicides with different groups that control the same pathogens.

Avoid application of more than the maximum number listed in the label and consecutive sprays of BANNER MAXX Fungicide or other fungicides in the same group in a season.

Use tank mixtures with fungicides from a different group when such use is permitted.

Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other control practices.

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 advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops or pathogens.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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