

GROUP 3 FUNGICIDE

BANNER MAXX® Fungicide

COMMERCIAL

EMULSIFIABLE CONCENTRATE

TURF FUNGICIDE

For control of certain diseases on golf course turf, nursery crops, Christmas trees, outdoor ornamental maples and true firs.

ACTIVE INGREDIENT:

Propiconazole 14.3%

READ THE LABEL AND THIS ATTACHED BOOKLET BEFORE USING

CAUTION



POISON

WARNING – EYE IRRITANT

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

NET CONTENTS: **3.78 L – 450 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

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.

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 a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair (unless otherwise specified below). Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.
- DO NOT use leather or cloth gloves. Rinse gloves with soap and water before removal and wash hands.
- 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.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreation areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
- **DO NOT** apply using handheld mistblower/airblast or handheld fogging equipment.

DO NOT APPLY BY AIR.

ENVIRONMENTAL PRECAUTIONS

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

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.

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)***

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CALL 1-800-327-8633 (FASTMED)***

DIRECTIONS FOR USE

BANNER MAXX® Fungicide is a broad spectrum systemic fungicide for control of various diseases on golf course turf grasses, nursery crops, Christmas trees, ornamental maples and true firs.

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.

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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

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

Spot treatments using hand-held equipment do not require a spray buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), 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:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Turf, golf courses		3	1	4	2	4
	Christmas trees (spruce and fir), True Firs		1	0	1	0	1
	Nursery crops, Outdoor ornamental maples		1	0	1	1	1
Airblast	Christmas trees (spruce and fir)	Early growth stage	1	0	2	0	2
		Late growth stage	1	0	1	0	2
	Outdoor ornamental maples	Early growth stage	1	0	2	1	2
		Late growth stage	1	0	1	1	1

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

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 (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.

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 m²).
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 m²). 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/100m²/year.

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

TURFGRASS – SPRAY SCHEDULE

The diseases listed below are controlled when BANNER MAXX is applied in accordance with the use instructions.

TURFGRASS	
DISEASE	Dollar Spot (<i>Sclerotinia homoeocarpa</i>)
PRODUCT RATE (mL/100 m²)	26 - 51
APPLICATION INTERVAL / DURATION OF CONTROL*	21 - 28 days
INSTRUCTIONS	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. Do not apply more than 6 applications per season.
DISEASE	Anthracnose (<i>Colletotrichum graminicola</i>)
PRODUCT RATE (mL/100 m²)	26 - 51
APPLICATION INTERVAL / DURATION OF CONTROL*	21 days
INSTRUCTIONS	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.
DISEASE	Red Thread (<i>Laetisaria fuciformis</i>)
PRODUCT RATE (mL/100 m²)	51
APPLICATION INTERVAL / DURATION OF CONTROL*	14 days
INSTRUCTIONS	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.

TURFGRASS	
DISEASE	Brown Patch (<i>Rhizoctonia solani</i>)
PRODUCT RATE (mL/100 m²)	51 – 103
APPLICATION INTERVAL / DURATION OF CONTROL*	14 days
INSTRUCTIONS	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.
DISEASE	Waitea Patch (<i>Waitea circinata var. circinata</i>)
PRODUCT RATE (mL/100 m²)	51 - 103
APPLICATION INTERVAL / DURATION OF CONTROL*	14 days
INSTRUCTIONS	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.
DISEASE	Leaf Spot & Melting Out (<i>Bipolaris sorokiniana</i> , <i>Drechslera poae</i>)
PRODUCT RATE (mL/100 m²)	51 - 103
APPLICATION INTERVAL / DURATION OF CONTROL*	14 days
INSTRUCTIONS	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.
DISEASE	Summer Patch (<i>Magnaporthe poae</i>)
PRODUCT RATE (mL/100 m²)	103
APPLICATION INTERVAL / DURATION OF CONTROL*	30 days
INSTRUCTIONS	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 ² . Do not apply more than 3 applications per season.
DISEASE	Gray Snow Mould (<i>Typhula incarnate</i> , <i>T. isikariensis</i>) Pink Snow Mould (<i>Microdochium nivale</i>)
PRODUCT RATE (mL/100 m²)	206
APPLICATION INTERVAL / DURATION OF CONTROL*	Late Fall
INSTRUCTIONS	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.

TURFGRASS	
DISEASE	Fusarium Patch (<i>Fusarium nivale</i>)
PRODUCT RATE (mL/100 m²)	51 - 103
APPLICATION INTERVAL / DURATION OF CONTROL*	30 days
INSTRUCTIONS	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.
DISEASE	Yellow patch (<i>Rhizoctonia cerealis</i>)
PRODUCT RATE (mL/100 m²)	77 - 103
INSTRUCTIONS	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.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

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 as a foliar application every 14 days except where indicated otherwise. Do not exceed more than 4 applications per year.

The diseases listed below for specific nursery crops are controlled when BANNER MAXX is applied in accordance with the use instructions.

NURSERY CROPS (Minor Uses)	
CROP	Dogwood, Maple
DISEASE	Anthraco-nose (<i>Discula destructiva</i>)
PRODUCT RATE (mL/100 L water)	28
CROP	Crabapple, Nonbearing Apple, Pyracanthas
DISEASE	Apple Scab (<i>Venturia inaequalis</i>)
PRODUCT RATE (mL/100 L water)	14

NURSERY CROPS (Minor Uses)	
CROP	Roses, Azalea, Rhododendron
DISEASE	Powdery Mildew (<i>Sphaerotheca pannosa</i>)
PRODUCT RATE (mL/100 L water)	35
CROP	Roses
DISEASE	Black Spot (<i>Diplocarpon rosae</i>)
PRODUCT RATE (mL/100 L water)	33
CROP (Field and outdoor container-grown)	Dogwood, bush honeysuckle (<i>Diervilla lonicera</i>), red currant (<i>Ribes rubrum</i>), viburnum, rhododendron, and spirea
DISEASE	Septoria leaf spot (<i>Septoria</i> spp.)
PRODUCT RATE (mL/ha)	280
SPRAY VOLUME	1000 L water/ha
TIMING OF APPLICATION AND APPLICATION INTERVAL	Start preventatively when conditions favour disease. Apply every 7 days.

GOLF COURSE TURF (Minor Use)	
DISEASE CONTROLLED	Take-all patch (<i>Gaeumannomyces graminis var. avenae</i>)
PRODUCT RATE (mL/100 m²)	64 - 127
APPLICATION INTERVAL / DURATION OF CONTROL*	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.
INSTRUCTIONS	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. DO NOT apply through any type of irrigation system.

CHRISTMAS TREES (SPRUCE AND FIR)

DISEASE CONTROLLED	Rhizosphaera needle cast (<i>Rhizosphaera kalkhoffii</i>) on spruce and fir Stigmima needle cast (<i>Stigmima lautii</i>) on spruce Lirula needle cast (<i>Lirula nervata</i>) on balsam fir
PRODUCT RATE (mL/1000 L water)	350
APPLICATION INTERVAL / DURATION OF CONTROL	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.
INSTRUCTIONS	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.

OUTDOOR ORNAMENTAL MAPLES

DISEASE CONTROLLED	Tar spot caused by <i>Rhytisma acerinum</i>
RATE OF BANNER MAXX FUNGICIDE (mL per 100 L water)	28 Spray to runoff (minimum 500L/ha)
TIMING OF APPLICATION AND APPLICATION INTERVAL	Start preventatively when conditions favour disease. Apply every 14 days.
INSTRUCTIONS	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.

TRUE FIRS (<i>ABIES</i> SPP.) GROWN OUTDOORS AS CHRISTMAS TREES AND AS ORNAMENTALS, INCLUDING IN CONTAINERS	
DISEASE	Delphinella Shoot blight (<i>Delphinella spp.</i>)
PRODUCT RATE (mL/ha)	350
TIMING OF APPLICATION AND APPLICATION INTERVAL	The first application is to be made when shoot emergence is less than 5 cm, and subsequent applications at 7-14 day intervals until conditions no longer favour disease development
INSTRUCTIONS	<p>Apply BANNER MAXX Fungicide preventively when conditions favour disease development.</p> <p>Use a water volume of 1000 L/ha.</p> <p>DO NOT exceed more than 3 applications per year.</p> <p>For balsam fir Christmas trees, a maximum of 3 applications may be made per year regardless of the targeted disease, i.e., delphinella shoot blight and Lirula needle cast (refer to the “Christmas trees (Spruce and Fir)” section above.</p> <p>DO NOT add surfactants or wetting agents as this may result in phytotoxicity.</p> <p>Apply as a foliar application only.</p>

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 that is effective on the target pathogen 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 Syngenta Canada Inc, if reduced sensitivity of the pathogen to BANNER MAXX 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 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.

BANNER MAXX® is a trademark of a Syngenta Group Company.