

GROUP 11 FUNGICIDE

HERITAGE MAXX™ Fungicide

COMMERCIAL

Emulsifiable Concentrate

For controlling diseases in turf on golf courses and commercial turf farms, and greenhouse and outdoor ornamentals

GUARANTEE:

Azoxystrobin..... 95 g/L

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

WARNING



POISON

EYE IRRITANT

REGISTRATION NO: **28393**
PEST CONTROL PRODUCTS ACT

Syngenta Canada, Inc.
140 Research Lane, Research Park
Guelph, Ontario
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. 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 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.

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.

TOXICOLOGICAL INFORMATION

No specific symptoms of poisoning are known for this product. If ingested, nausea, vomiting, diarrhoea and abdominal pain may occur. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. HARMFUL OR FATAL IF SWALLOWED. May irritate eyes. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash with soap and water after handling, and before eating, drinking or smoking. Wash contaminated clothing, separately from household laundry, before re-use. Wear protective goggles or face shield as well as a protective apron when handling the concentrated product during mixing and loading. Do not wear contaminated shoes. Wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, shoes plus socks. Do not apply by air.

Do not enter or allow entry into treated turf until residues are dry.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours for greenhouse and outdoor ornamentals.

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

ENVIRONMENTAL HAZARDS

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

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.

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.

STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well ventilated area away from feed and foodstuffs, and out of the reach of children and animals. Keep away from fire or open flame, or other sources of heat. If frozen, allow to thaw and agitate thoroughly prior to use.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If on a floor or paved surface, mop up the spilled product and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Wash the surface or floor with detergent and water, then rinse.

If on soil, collect contaminated surface soil with the product. If the product is clean, it may be used; otherwise follow the DISPOSAL instructions.

DECONTAMINATION AND 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 clean-up of spills.

CONTAINER DISPOSAL:

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 in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

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

PRODUCT INFORMATION

HERITAGE MAXX™ Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many diseases on turf. HERITAGE MAXX Fungicide may be applied as a foliar spray as part of an integrated disease management strategy for turf on golf courses and commercial turf farms. Cultural practices such as appropriate choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management, should be integrated with the use of fungicides to increase turf vigour and reduce susceptibility to disease. Consult local agricultural and turf authorities in your area for guidance.

CAUTION: HERITAGE MAXX Fungicide has been shown to be extremely phytotoxic to certain apple and crabapple varieties. HERITAGE MAXX Fungicide should not be applied where there is the possibility of spray drift reaching apple and crabapple trees. **DO NOT** use sprayers used to apply HERITAGE MAXX Fungicide to spray apples or crabapples.

DO NOT graze or feed clippings from the treated area to livestock.

DO NOT apply HERITAGE MAXX Fungicide with silicone-based wetting agents due to possible phytotoxicity.

DIRECTIONS FOR USE

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 waste.

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.

Proper adjustments and calibration of spraying equipment, to give good canopy penetration and coverage, is essential for good disease control. The higher rates, in the rate range and/or shorter spray intervals, may be required under conditions of heavy infection pressure, highly susceptible

varieties, or when disease conducive environmental conditions exist.

DO NOT apply by air.

DO NOT apply through irrigation equipment.

DO NOT apply through any type of ultra-low volume (ULV) spray system (less than 30 litres per hectare).

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), 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 1m	
Field sprayer	Turf	2	1	1	1	1
	Outdoor Ornamentals	2	1	1	1	1

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.

TURF: Golf Courses, Commercial Turf Farms - For control of *Pythium* blight, **Brown Patch, Waitea Patch, Fusarium Patch, Gray Snow Mould, Pink Snow Mould, Anthracnose, Fairy Ring, Leaf Spots Melting-Out, Take-all Patch and Summer Patch**. Refer to the following table to determine the appropriate use rate and application interval by target disease.

Do not apply more than 28.4 L of HERITAGE MAXX Fungicide per hectare per year.

Target Disease	Product Rate		Application Interval (days)	Remarks
	L/hectare	mL/100 m ²		
<i>Pythium aphanidermatum</i> (<i>Pythium</i> blight)	6.3	63	10 - 14	Begin application before disease is present (usually late May or June) when environmental conditions favour disease development, i.e., relative humidity greater than 90% for at least 9 hours, maximum daily temperature of 27.7°C and low temperature of 20°C.

Target Disease	Product Rate		Application Interval (days)	Remarks
	L/hectare	mL/100 m ²		
<i>Rhizoctonia solani</i> (Brown Patch)	3.2	32	14 - 28	Begin application before disease is present (usually late May or June) when conditions favour disease development (high surface moisture or humidity and warm night temperatures). During prolonged periods of favourable conditions apply on the shorter application interval.
<i>Waitea circinata</i> var. <i>circinata</i> (Waitea Patch or Brown Ring Patch)	3.2 – 6.3	32 - 63	14 - 28	Apply 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 moderate to severe disease pressure. During prolonged periods of favourable conditions apply on the shorter application interval. DO NOT apply more than 2 sequential applications of Heritage MAXX Fungicide before alternating with a fungicide of a different group with a different mode of action.
<i>Microdochium nivale</i> (Microdochium Patch or Fusarium Patch)	3.2 – 6.3	32 - 63	14 - 28	Apply when conditions are favourable for disease development, i.e., extended period of cool (<15.5°C) and wet weather in spring and fall.
For suppression of <i>Microdochium nivale</i> (Microdochium Patch or Fusarium Patch) on Fairways	1.6	16	14	Apply preventatively on fairways only and only under conditions of low disease pressure
<i>Typhula incarnata</i> (Gray Snow Mould) and <i>Microdochium nivale</i> (Pink Snow Mould)	9.5 – 12.6	95 - 126	1 fall application	Apply in late fall before snow cover. Do not apply on top of snow. Use the higher rate if there is a history of severe snow mould infection on the site.
<i>Colletotrichum graminicola</i> , (Anthracnose)	3.2 – 6.3	32 – 63	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
<i>Basidiomycete</i> , including <i>Lycoperdon</i> spp. (Fairy Ring)	6.3	63	28	Apply as soon as possible after fairy ring symptoms develop. Severely damaged or thin turf may require reseeded. Fairy ring symptoms may take 2 to 3 weeks to disappear following application.
<i>Bipolaris sorokiniana</i> , <i>Drechslera poae</i> (Leaf Spots and Melting-Out)	3.2 – 6.3	32 – 63	14-28	Initiate applications when conditions are favourable for disease development. Apply the lower rate at 14-day intervals or the higher rates at 28-day intervals.

Target Disease	Product Rate		Application Interval (days)	Remarks
	L/hectare	mL/100 m ²		
<i>Magnaporthe poae</i> (Summer Patch)	3.2 - 6.3	32 - 63	14 - 28	Initiate applications when conditions are favourable for disease development. Apply the lower rate at 14-day intervals or the higher rate at 28-day intervals.

Note: HERITAGE MAXX Fungicide alone does not control **Dollar Spot**. For Dollar Spot control please refer to the tank mix recommendations below.

Dollar Spot - TANK MIX ONLY	<p>HERITAGE MAXX Fungicide alone does not control Dollar Spot. To control Dollar Spot, HERITAGE MAXX Fungicide must be tank mixed with either BANNER MAXX® Fungicide at 26 - 51 mL/100 m², DACONIL 2787® Flowable Fungicide at 190 mL/100 m² or DACONIL® ULTREX Fungicide at 115 g/100 m².</p> <p>Read the label of BANNER MAXX Fungicide, DACONIL 2787 Flowable Fungicide or DACONIL ULTREX Fungicide and follow the precautionary statements, directions for use (rates, diseases controlled and application intervals) and other restrictions.</p>
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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.

GOLF COURSE TURF

Target Disease	Product Rate	Water Volume (L/ha)	Application Interval (days)	Remarks
Control of Take-all Patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>)	6.3 L/ha (63 mL/100 m ²)	800-1600 (8-16 L/100 m ²)	28	Apply two applications in the spring and two applications in the fall.

Restrictions:

Residential use is restricted.
DO NOT APPLY BY AIR.

Application Directions: Apply the required amount of HERITAGE MAXX Fungicide in 8 to 16 litres of water per 100 m² (800 to 1600 litres per hectare). Repeat applications at specified intervals and do not apply more than 28.4 L of HERITAGE MAXX Fungicide per hectare per year. Use the shorter specified application interval when prolonged favourable disease conditions exist. (Refer to Resistance Management section).

HERITAGE MAXX Fungicide Only

Mixing Instructions: To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of HERITAGE MAXX Fungicide to the tank, allowing time for good dispersion. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application. Do not use silicone-based products with HERITAGE MAXX Fungicide due to possible phytotoxicity.

Mixing and Application Guidance: Refer to the following table for assistance in calculating product requirements based on target application spray volume, and size of mix load.

Amount of HERITAGE MAXX Fungicide (millilitres) required for each **100 litres** of spray solution at selected rates and target application volumes:

Rate of HERITAGE MAXX Fungicide (mL/100 m ²)	Target Application Volume (litres/100 m ²)		
	8	12	16
32	400	266.7	200
63	787.5	525	393.8
95	1187.5	791.7	593.8
126	1575	1050	787.5
Rate of HERITAGE MAXX Fungicide (L /ha)	Target Application Volume (litres/ha)		
	800	1200	1600
3.2	400	266.7	200
6.3	787.5	525	393.8
9.5	1187.5	791.7	593.8
12.6	1575	1050	787.5

Examples:

1) If the intended rate of application is 32 millilitres per 100 m², and the sprayer is calibrated to deliver 12 litres per 100 m², a 100 litre batch size would require 266.7 millilitres of HERITAGE MAXX Fungicide.

2) If the intended rate of application is 6.3 litres per hectare, and the sprayer is calibrated to deliver 800 litres per hectare, each 100 litres of spray solution would require 787.5 millilitres of HERITAGE MAXX Fungicide.

Tank Mixtures - Pesticides:

For Dollar Spot control, HERITAGE MAXX Fungicide can be tank mixed with BANNER MAXX Fungicide or DICONIL 2787 Flowable Fungicide, DICONIL ULTREX Fungicide or SUBDUE MAXX[®] Fungicide. HERITAGE MAXX Fungicide can also be tank mixed with PRIMO MAXX[®] Turf Growth Regulator. Read the BANNER MAXX Fungicide, DICONIL 2787 Flowable Fungicide, DICONIL ULTREX Fungicide, SUBDUE MAXX Fungicide and PRIMO MAXX Turf Growth Regulator label(s) and follow the precautionary statements, directions for use (rates, diseases controlled and application intervals) and other restrictions.

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of HERITAGE MAXX Fungicide, BANNER MAXX Fungicide, DAPONIL 2787 Flowable Fungicide, DAPONIL ULTREX Fungicide, SUBDUE MAXX Fungicide and PRIMO MAXX Turf Growth Regulator or other chemicals to be used, 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 BANNER MAXX Fungicide or SUBDUE MAXX Fungicide or PRIMO MAXX Turf Growth Regulator as a tank mix partner, add BANNER MAXX Fungicide or SUBDUE MAXX Fungicide and HERITAGE MAXX Fungicide first and then add PRIMO MAXX Turf Growth Regulator next.
5. If using DAPONIL 2787 Flowable Fungicide as a tank mix partner, add HERITAGE MAXX Fungicide first and then DAPONIL 2787 Flowable Fungicide next.
6. If using DAPONIL ULTREX Fungicide as a tank mix partner, add DAPONIL ULTREX Fungicide first and then add HERITAGE MAXX Fungicide next.
7. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

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GOLF COURSE TURF

Target Disease	Product Rate	Water Volume (L/ha)	Application Interval (days)	Remarks
For the suppression of take-all patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>)	6.3 L/ha (63 mL/100 m ²)	800-1600 (8-16 L/100 m ²)	See "Remarks"	Apply one application in the spring when conditions favour infection but prior to disease symptom development. Apply a second application in the fall.

Restrictions:

Residential use is restricted.
DO NOT apply more than 2 applications per season.
DO NOT APPLY BY AIR.

Greenhouse and Outdoor Ornamentals			
Target Disease	Product Rate	Application Interval (days)	Remarks
Alternaria Leaf Spot (<i>Alternaria</i> spp.)	40 – 80 mL/100 L	7 – 28 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Anthracnose (<i>Colletotrichum</i> spp.)	80 – 160 mL/100 L	7 – 28 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Botrytis Blight and Grey Mould (<i>Botrytis cinerea</i>)	80 – 160 mL /100 L	7 – 21 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Cercospora Leaf Spot (<i>Cercospora</i> spp.)	160 mL /100 L	7 – 21 days	Suppression Only. Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Downy Mildew (<i>Peronospora</i> spp.)	40 – 80 mL /100 L	7 – 21 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Powdery Mildew (<i>Oidium</i> spp., <i>Erysiphe</i> spp., <i>Sphaerotheca</i> spp.)	40 – 160 mL /100 L	7 – 28 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.
Rust (<i>Puccinia</i> spp.)	80-160 mL /100 L	7 – 28 days	Begin applications when conditions are favorable for disease infection, prior to disease development. Apply up to two foliar applications as preventative control; see restrictions below.

Greenhouse and Outdoor Ornamentals			
Target Disease	Product Rate	Application Interval (days)	Remarks
Pythium Root Rot caused by <i>Pythium</i> spp.	40 mL /100 L	7 – 28 days	Apply up to two drench applications as preventative control prior to infection as healthy roots are necessary to optimize disease protection; see restrictions below
Rhizoctonia Root, Crown and Stem Rots caused by <i>Rhizoctonia solani</i>	40 mL/100 L	7 – 28 days	Apply up to two drench applications as preventative control prior to infection as healthy roots are necessary to optimize disease protection; see restrictions below

Restrictions:

Do not apply in a residential setting.

Up to 2 applications are permitted if the total number of fungicide applications in a season is equal to or greater than 3. DO NOT apply more than 1 application of Heritage MAXX Fungicide or any other group 11 fungicide per season if the total number of fungicide applications is less than 3. Each application of Heritage MAXX Fungicide or any other group 11 fungicide on ornamentals should be alternated with at least one application of another fungicide from a different mode of action group registered for control of the target diseases. Do not apply more than 2000 L/ha for foliar applications.

DO NOT APPLY BY AIR.

Ornamentals and ornamental varieties may vary in their tolerance to HERITAGE MAXX fungicide. Since not all ornamentals and ornamental varieties have been tested for tolerance to HERITAGE MAXX fungicide, small scale testing is recommended to ensure plant safety before large scale use. Tolerance to HERITAGE MAXX may also be affected by other factors including plant growth stage and environmental conditions. Consult your seed or plant supplier for information on the tolerance of specific varieties of ornamentals and ornamental varieties to HERITAGE MAXX fungicide.

Post plant drenches should be made in a 20 cm band.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that HERITAGE MAXX Fungicide contains a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to HERITAGE MAXX Fungicide and other Group 11 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:

HERITAGE MAXX Fungicide should be applied in an alternation program with other registered fungicides that have a different mode of action, and to which pathogen resistance has not developed.

DO NOT apply more than two (2) applications before applying one (1) application of a fungicide of a different group with a different mode of action.

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 chemical control practices.

Monitor treated fungal populations for sign of resistance development.

If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens in your area.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-974-3682) or at www.syngenta.ca.

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