

GROUP	11	FUNGICIDE
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HERITAGE[®] Fungicide

COMMERCIAL

For Use in Controlling Diseases in Turf and for Controlling Daylily Rust (*Puccinia hemerocallidis*) on Daylilies in Outdoor Nurseries and Landscapes

GUARANTEE:

Azoxystrobin500 g/Kg

**CAUTION - EYE IRRITANT
READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

RESIDENTIAL USE IS RESTRICTED

REGISTRATION NO: **26155**
PEST CONTROL PRODUCTS ACT

Syngenta Crop Protection Canada, Inc.
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Guelph, Ontario
N1G 4Z3

PAMPHLET

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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: Induce vomiting. Get medical attention or call a poison control centre **IMMEDIATELY**. If patient is unconscious, move subject to fresh air.

If on skin: Wash with plenty of soap and water.

If in eyes: Hold eyes open and rinse slowly and gently with water for a few minutes. Remove contact lenses, if any. Continue to rinse eyes for 10-15 minutes. Seek medical attention **IMMEDIATELY** if irritation persists or is severe.

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.

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. Do not wear contaminated shoes.

Wear long sleeved shirt, long pants and chemical resistant gloves when mixing, loading and applying and during clean-up and repair activities. Wear chemical resistant gloves during mixing and loading and when applying by hand wand or backpack.

Do not re-enter treated turf until residues have dried.

This product demonstrates the properties and characteristics associated with compounds detected in ground water. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Do not contaminate irrigation water, lakes, streams or ponds by cleaning of equipment or disposal of wastes.

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.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. Sweep up spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, 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.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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 mixture in the tank.
2. Make the empty, rinsed container unsuitable for future 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 Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of daylily rust in daylilies and many diseases on turf. HERITAGE Fungicide may be applied as a foliar spray as part of an integrated disease management strategy for daylilies in outdoor nurseries and landscapes and for turf on golf courses and commercial turf farms. Cultural practices such as appropriate choice of 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 vigour and reduce susceptibility to disease. Consult local agricultural and authorities in your area for guidance.

CAUTION: HERITAGE Fungicide has been shown to be extremely phytotoxic to certain apple and crabapple varieties. HERITAGE 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 Fungicide to spray apples or crabapples.

DO NOT apply HERITAGE Fungicide through irrigation equipment.

DO NOT apply HERITAGE Fungicide by air.

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

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

DIRECTIONS FOR USE

TURF: Golf Courses, Commercial Turf Farms - For control of *Pythium* blight, **Brown Patch**, *Fusarium* Patch, **Grey Snow Mould**, **Pink Snow Mould**, **Anthracnose**, **Fairy Ring**, **Leaf Spots**, **Melting-Out** 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 5.4 kg of Heritage Fungicide per hectare per year.

Target Disease	Product Rate		Application Interval (days)	Remarks
	Kg/ hectare	grams/ 100 m ²		
<i>Pythium aphanidermatum</i> (<i>Pythium</i> blight)	1.2	12	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.
<i>Rhizoctonia solani</i> (Brown Patch)	0.6	6	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>Microdochium nivale</i> (<i>Fusarium</i> Patch)	0.6	6	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.
<i>Typhula incarnata</i> (Grey Snow Mould) and <i>Microdochium nivale</i> (Pink Snow Mould)	1.8 - 2.4	18 - 24	one 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.

Target Disease	Product Rate kg/ha	Product Rate g/100m ²	Application Interval (days)	Remarks
<i>Colletotrichum graminicola</i> , (Anthracnose)	0.6 – 1.2	6 - 12	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)	1.2	12	28	Apply as soon as possible after fairy ring symptoms develop. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following applications.
<i>Bipolaris sorokiniana</i> , <i>Drechslera poae</i> (Leaf Spots and Melting-Out)	0.6 – 1.2	6 - 12	14-28	Apply when conditions are favorable for disease development.
<i>Magnaporthe poae</i> Summer Patch	0.6 – 1.2	6 - 12	14-28	Initiate applications when conditions are favourable for disease development. Apply 6 g product/100 m ² at 14 day intervals or 12 g product/ 100 m ² at 28 day intervals.

Note: HERITAGE 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 Fungicide alone does not control Dollar Spot. To control Dollar Spot, Heritage Fungicide must be tank mixed with either Banner MAXX Fungicide at 26-51 ml/100m² or DACONIL 2787 Flowable Fungicide at 190 ml/100m².</p> <p>Read the label of Banner MAXX Fungicide or DACONIL 2787 Flowable Fungicide and follow the precautionary statements, directions for use (rates, diseases controlled and application intervals) and other restrictions.</p>
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Application Directions: Apply the required amount of HERITAGE 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 5.4 Kg of HERITAGE Fungicide per hectare per year. Use the shorter specified application interval when prolonged favourable disease conditions exist. (Refer to Resistance Management section)

Apply by ground sprayer only.

Ground application - HERITAGE Fungicide may be applied with all types of spray equipment commonly used for making ground applications. Apply HERITAGE Fungicide in sufficient water volume for adequate coverage and canopy penetration. Do not apply HERITAGE Fungicide through any type of ultra-low volume (ULV) spray system (less than 30 litres per hectare). 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.

Over spray or drift to sensitive habitats should be avoided. Do not over spray sensitive terrestrial habitats including forested areas, shelterbelts, woodlots, hedgerows, and shrublands. A buffer zone of 21 metres is required between the downwind edge of the boom and sensitive aquatic habitats such as sloughs, ponds, prairie potholes, lakes, rivers, streams and wetlands. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hr at 2 metres above ground at the site of application.

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

Rate of HERITAGE Fungicide (grams/100 m ²)	Target Application Volume (litres/100 m ²)		
	8	12	16
6	75	50	37.5
12	150	100	75
18	225	150	112.5
24	300	200	150
Rate of HERITAGE Fungicide (Kg/ha)	Target Application Volume (litres/ha)		
	800	1200	1600
0.6	75	50	37.5
1.2	150	100	75
1.8	225	150	112.5
2.4	300	200	150

Examples:

1) If the intended rate of application is 6 grams per 100 m², and the sprayer is calibrated to deliver 12 litres per 100 m², a 100 litre batch size would require 50 grams of HERITAGE Fungicide.

2) If the intended rate of application is 1.2 kilograms per hectare, and the sprayer is calibrated to deliver 800 litres per hectare, each 100 litres of spray solution would require 150 grams of HERITAGE Fungicide.

Tank Mixtures - Pesticides:

For Dollar Spot control, HERITAGE Fungicide can be tank mixed either with Banner MAXX[®] Fungicide or DAPONIL[®] 2787 Flowable Fungicide. HERITAGE Fungicide can also be tank mixed with Primo MAXX[®] Turf Growth Regulator. Read the Banner MAXX Fungicide, DAPONIL 2787 Flowable 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 Fungicide, Banner MAXX Fungicide, DAPONIL 2787 Flowable 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 Primo MAXX Turf Growth Regulator as a tank mix partner, add Banner MAXX Fungicide and HERITAGE Fungicide first then add Primo MAXX Turf Growth Regulator next.
5. If using DAPONIL 2787 Flowable Fungicide as a tank mix partner, add HERITAGE Fungicide first then DAPONIL 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.

NOTE TO USER:

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection 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 assumes all liability arising, and agrees to hold Syngenta Crop Protection Canada, Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

DAYLILIES

Target Disease	Product Rate	Water Volume (L/ha)	Application Interval (days)	Remarks
<i>Puccinia hemerocallidis</i> (Daylily Rust)	0.282 kg/ha (0.3 g/L)	940	14-28	Apply as a broadcast spray to foliage, prior to disease development and continue throughout the season at the 14 – 28 days interval following resistant management guidelines.

Restrictions:

Residential use is restricted.

DO NOT apply more than 2 applications per season.

DO NOT apply by air

Ground Application:

Overspray or drift into sensitive habitats should be avoided. Do not overspray sensitive terrestrial habitats, including forested areas, shelterbelts, woodlots, hedgerows or shrublands. Do not overspray sensitive aquatic habitats such as sloughs, ponds, prairie potholes, lakes, rivers, streams and wetlands. Do not contaminate these habitats when cleaning or rinsing spray equipment or containers.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that HERITAGE Fungicide contains a Group 11 fungicide.

Any fungal population may contain individuals naturally resistant to HERITAGE 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 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 (1-877-964-3682) or at www.syngenta.ca.

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