

# **TURF - PYTHIUM ROOT DYSFUNCTION**

## General Information

### NON-AGRICULTURAL USES

For use to control turf diseases in lawns around residential, institutional, public, commercial and industrial buildings; turf areas of parks, recreational areas and athletic fields; and golf course turf.

### PRODUCT INFORMATION

Heritage G is a broad-spectrum, systemic fungicide with preventative and curative properties used to control listed turf diseases. All applications should be made according to the use directions that follow.

Heritage G is a member of Syngenta's Plant Performance product line that can improve plant vigor and quality.

The additional benefits are due to positive effects on plant physiology, which can vary according to plant species and growing environment.

See "HOMEOWNER DIRECTIONS FOR APPLICATION TO HOME LAWNS".

### USE RESTRICTIONS

- DO NOT graze or feed clippings from treated turf areas to animals.
- DO NOT apply more than 1,613 lb product per acre per year (37 lb product per 1,000 sq ft per year).
- DO NOT apply by air.
- DO NOT apply when weather conditions favor product blowing from treated areas to non-target aquatic habitat.
- Azoxystrobin, the active ingredient in Heritage G, is extremely phytotoxic to certain apple varieties. Even trace amounts can cause unacceptable phytotoxicity. Therefore, DO NOT use any application equipment that has been used to apply Heritage G (or any other product containing azoxystrobin) to turf, to make

applications to or near apple trees. DO NOT spread Heritage G where granules may reach apple trees.

### Integrated Pest (Disease) Management (IPM)

Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Heritage G should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required.

Cultural practices such as proper 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 vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

Consult your local agricultural, turf authorities for additional IPM strategies established for your area. Heritage G may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

### RESISTANCE MANAGEMENT

Heritage G (azoxystrobin) is a Group 11 fungicide. The mode of action for Heritage G is the inhibition of the Qo (quinone outside) site within the electron transport system as well as disruption of membrane synthesis by blocking demethylation (Group 11). Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly.

Heritage G 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 sequential Heritage G applications for Pythium disease control. For all other diseases when Pythium diseases are not present, do not apply more than four sequential applications of Heritage G.

As resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the turf and use area. Consult

your local or State agricultural authorities for resistance management strategies that are complementary to those on the label. Resistance management strategies may include alternating with products having different modes of action or limiting the total number of applications per season. Syngenta encourages responsible resistance management to ensure effective long-term control of the fungal diseases on the label.

Follow the turf specific resistance management recommendations in the directions for use.

In situations requiring multiple applications, develop season-long programs for Group 11 (QoI) fungicides. In crops where two sequential Group 11 fungicide applications are made, they should be alternated with two or more applications of a fungicide that is not in Group 11. If more than 12 applications are made, observe the following guidelines:

- When using a QoI fungicide as a solo product, the number of applications should be no more than 1/3 (33%) of the total number of fungicide applications per season.
- For QoI mixes in programs in which tank mixes or premixes of QoI with mixing partners of a different mode of action are utilized, the number of QoI containing applications should be no more than 1/2 (50%) of the total number of fungicide applications per season.
- In programs in which applications of QoI are made with both solo products and mixtures, the number of QoI containing applications should be no more than 1/2 (50%) of the total number of fungicides applied per season.

If a Group 11 fungicide is applied to the seed or soil, do not make another application with a Group 11 fungicide for at least 3 weeks.

Limitations, Restrictions, and Exceptions

#### APPLICATION INSTRUCTIONS – PROFESSIONAL AND COMMERCIAL APPLICATORS

Apply Heritage G at rates and timings as described in the label.

Heritage G may be applied with all types of spreader equipment commonly used for making ground applications.

Proper adjustments and calibration of application equipment to give good coverage is essential for good disease control.

The higher rates in the rate range and/or shorter application intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions conducive to disease exist.

Heritage G should be applied prior to disease development.

- Do not apply more than 1,613 lb product per acre per year (37 lb product per 1,000 sq ft per year).

DO NOT apply by air.

For use in the establishment of turfgrass from seed or in overseeding of dormant turfgrass:

Heritage G may be used for control of certain turfgrass diseases associated with turfgrass establishment from seed.

Heritage G may also be used during overseeding of dormant turfgrass.

Heritage G may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, and fescue turfgrass types.

Optimum application timing is during seeding. See Application Instructions section.

Rate Ranges: Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease conditions exist.

## TURF

Apply preventatively when mean daily soil temperatures are between 55 F and 70 F. Irrigate with 0.1 to 0.2 inches within 24 hours after application to facilitate movement into the root zone.

Do not apply more than two sequential applications of Heritage G for control of *Pythium* spp. For all other diseases when *Pythium* spp. is not present, do not apply more than three sequential applications of Heritage G.

Application Interval: 21-28 days

## Method

[Broadcast/Foliar Ground](#)

## Rates

[field\\_rates 0](#)

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## Timings

When mean daily soil temperatures are between 55 F and 70 F.