

CONTROL OF PYTHIUM ROOT DYSFUNCTION ON CREEPING BENTGRASSES - AL, AK, AZ, AR, CO, CT, DC, DE, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NJ, NM, ND, OH, OK, PA, RI, SD, TN, UT, VT, VA, WA, WV, WI, WY

General Information

GENERAL INFORMATION

Insignia fungicide is a broad-spectrum fungicide recommended for the control of many important diseases of turfgrass and ornamentals. For maximum efficacy, apply Insignia preventively. Insignia may be applied as a solo foliar spray or in tank mixes with other registered fungicides.

DO NOT exceed the recommended application rate or fail to comply with use restrictions listed in the Resistance Management and Restrictions and Limitations sections. All applications must be made according to the use directions that follow. Failure to follow directions and precautions on this label may result in injury and/or inferior disease control.

This package contains Insignia fungicide, a water dispersible granule (WG). The active ingredient in Insignia, pyraclostrobin, is a member of the strobilurin class of chemistry and is derived from a natural antifungal substance.

Optimum disease control is achieved when Insignia is applied in a regularly scheduled protective spray program and used in a rotation program with other fungicides. Because of its high specific activity, Insignia has good residual activity against target fungi.

Mode of Action: Pyraclostrobin, the active ingredient in Insignia, belongs to the group of respiration inhibitors classified by the USEPA and Canada PMRA as Quinone Outside Inhibitors (QoI) or Target Site of Action Group 11 fungicides.

APPLICATION INFORMATION

Use Sites:

Use on turfgrass - Insignia may be used for disease control in the following turf use

sites:

- golf courses
- residential, institutional, commercial, and municipal lawns
- parks
- recreational areas including sports and athletic fields
- cemeteries
- sod farms

Use on ornamental plants - Insignia may be used for disease control on ornamentals, including flower bulbs and forest and conifer nurseries and plantations.

Use sites include:

- outdoor nurseries
- retail nurseries
- greenhouses
- lath- and shadehouses
- containers
- residential and commercial landscapes
- interiorscapes
- recreational areas including golf courses

Application Instructions:

- Apply the recommended rate of Insignia as instructed in the Use Directions sections with ground or aerial spray equipment. Use the shorter specified application interval and/or the higher specified rate when prolonged favorable disease conditions exist.
- Apply Insignia using sufficient water volume and pressure for adequate coverage of the foliage.
- Calibrate spray equipment prior to use.
- For maximum efficacy, apply Insignia prior to or in the early stages of disease development. Use of Insignia as a late curative or eradicator treatment may not result in satisfactory disease control.
- After application, allow foliage to dry prior to mowing or irrigating.
- Actual length of disease control will vary depending on environmental conditions,

disease pressure, and management practices.

Ground Application

Apply Insignia at the rates indicated in the Use Directions sections in 2 to 4 gallons of water per 1000 square feet (87 to 174 gallons per acre). Repeat applications at the specified interval as necessary.

Aerial Application

Aerial application is permitted only on sod farms and the following production ornamentals:

- container and field nurseries
- flower bulb production
- forest and conifer nurseries

Apply Insignia at the rates indicated in the Use Directions sections in no less than 10 gallons of spray solution per acre. Repeat applications at the specified interval as necessary. DO NOT apply when conditions favor drift from target area.

DO NOT apply by air in New York State except as permitted under FIFRA Section 24(c), Special Local Need Registration.

Spray Drift Management

DO NOT spray when conditions favor drift beyond area intended for application. Conditions that contribute to drift include thermal inversion, wind speed and direction, spray nozzle/pressure combinations, spray droplet size, temperature/humidity, etc. Contact your state extension agent for spray drift prevention guidelines in your area. All application equipment must be properly maintained and calibrated using appropriate carriers. Avoiding spray drift at the application site is the responsibility of the applicator.

Aerial Application Methods and Equipment

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

DO NOT apply under circumstances where possible drift to unprotected persons, to food, forage, or other plantings that might be damaged, or crops thereof rendered

unfit for sale, use or consumption can occur.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

TURFGRASS USE DIRECTIONS

Insignia is recommended for the control of anthracnose, bentgrass dead spot, Bermudagrass decline, brownatch, dollar spot (suppression only), fairy ring, Fusarium patch, gray leaf spot, gray snow mold, large patch, leaf spot, melting out, necrotic ring spot, pink patch, pink snow mold, powdery mildew, Pythium blight, Pythium root dysfunction, rapid blight, red thread, Rhizoctonia leaf or sheath spot, rust, summer patch, take-all patch and yellow tuft (downy mildew).

Insignia provides significant suppression but not complete control of dollar spot. When used to control other diseases and dollar spot pressure is moderate to severe, tank mix Insignia with another effective (non-strobilurin) fungicide. For optimum control of gray snow mold and pink snow mold, tank mix Insignia with another effective (non-strobilurin) fungicide.

Limitations, Restrictions, and Exceptions

For use in AL, AK, AZ, AR, CO, CT, DC, DE, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NJ, NM, ND, OH, OK, PA, RI, SD, TN, UT, VT, VA, WA, WV, WI, WY

This recommendation is for the use of Insignia to control Pythium root dysfunction (*Pythium volutum* and *Pythium* spp.) on creeping bentgrass.

Directions for Use

For control of Pythium root dysfunction (*Pythium volutum* and *Pythium* spp.), Insignia should be applied to creeping bentgrass at 0.9 oz per 1,000 sq ft (40 oz per acre) as two sequential applications at a 14-day interval in a preventative or early curative application beginning in late spring. Applications should be made in 2-gallons of spray volume. Performance of Insignia has been enhanced when a light

irrigation event occurs directly following the fungicide application. Control with Insignia has been shown to be favorable when combined with a root-stimulating fertilizer (potassium nitrate source) at the time of application. Following two (2) applications of Insignia, rotate to a non-strobilurin (non-Group 11) fungicide before using Insignia again through the summer. If high disease pressure is present at the time of first application use mefenoxam or an ethazol fungicide for knockdown followed by a sequential application of Insignia at 0.9 ounces per 1000 sq ft within 7-14 days of this initial application.

To limit the potential for resistance development, follow the container label directions for alternating Insignia with fungicides that have a different mode of action (non-strobilurin, non-Group 11). The use of Insignia for Pythium control requires rotation to a non-strobilurin fungicide following two sequential applications of Insignia.

Method

[Spray](#)

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

12 hours

Timings

[In late spring.](#)