SUPPRESSION OF PINK ROOT DISEASE OF ONIONS - ARIZONA, CALIFORNIA, COLORADO, ETC. (POST-PLANT TIMING)

General Information

DuPont FONTELIS fungicide (referred to below as DuPont FONTELIS fungicide, DuPont FONTELIS, FONTELIS fungicide, or FONTELIS) is a suspension concentrate containing penthiopyrad for the control or suppression of many important listed plant diseases. FONTELIS fungicide contains mineral oil in the formulation.

Restrictions
- Use this product only in commercial and farm plantings.
- Do not use for home plantings.
- May be used in greenhouse production of tomatoes, peppers, and edible-peel cucurbits [cucumbers, summer squash].
- Do not formulate this product into other end-use products.

PRODUCT INFORMATION

FONTELIS must be used only in accordance with instructions on this label, in separately issued labeling or exemptions under FIFRA (Supplemental Labels, Special Local Need Registration, FIFRA Section 18 exemptions), or as otherwise permitted by FIFRA. Always read the entire label including the Limitation of Warranty and Liability.

FONTELIS is a broad-spectrum fungicide, recommended for control of foliar and soilborne plant diseases, and has preventive, curative, and locally systemic activity. FONTELIS must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See directions below for specific crop/disease recommendations.

FONTELIS can be applied with commonly used ground equipment, hose-end, pressurized, and greenhouse sprayers, air or chemigation equipment, except as otherwise directed, using sufficient water to obtain thorough coverage of plants. Thorough coverage of all foliage is essential for effective disease control. Maintain
agitation during mixing and application to assure uniform product suspension.

Application Volumes

- For conventional ground application, apply a minimum of 15 gallons per acre, increasing the spray volume as the plants mature to ensure thorough coverage of foliage.

- For air-assisted ground application, apply a minimum of 10 gallons per acre.

- For aerial application, apply a minimum of 2 gallons per acre (10 gallons per acre for trees and orchards).

Rainfastness: DuPont FONTELIS rapidly penetrates into plant tissues and is rainfast within 1 hour after application.

CULTIVAR/VARIETAL CROP SAFETY

Not all crops within a crop group, and not all varieties, cultivars or hybrids of crops, have been individually tested for crop safety. It is not possible to evaluate for crop safety all applications of FONTELIS on all crops within a crop group, on all varieties, cultivars, or hybrids of those crops, or under all environmental conditions and growing circumstances. To test for crop safety, apply the product in accordance with the label instructions to a small area of the target crop to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

INTEGRATED PEST MANAGEMENT

DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests.

FONTELIS may be used as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when disease forecasting models reach locally determined action levels. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine the appropriate management, cultural practice and treatment threshold levels for the specific crop,
geography and diseases.

RESISTANCE MANAGEMENT

Repeated use of products for control of specific plant pathogens may lead to selection of resistant strains of fungi and result in a reduction of disease control. Penthiopyrad, the active ingredient in FONTELIS, is one of EPA’s Target Site of Action Group 7 fungicides (carboxamides). A disease management program that includes rotation and/or tank mixing with non-Group 7 fungicides is essential to reduce the risk of fungicide resistance development. If resistance to Group 7 fungicides is expected, then tank mix FONTELIS with an effective fungicide with different mode-of-action.

For guidance on a particular crop and disease control situation, consult your state extension specialist for official state recommendations.

APPLICATION INFORMATION

Soilborne/Seedling Disease Control for Tomatoes, Snap Beans and Bulb Onions

DuPont FONTELIS can provide suppression or control of soilborne diseases when applied early in the growing season using specific application methods like pre-plant incorporation prior to planting, or in-furrow, banded, or drip applications.

A single early season application of FONTELIS can be made to the soil by one of the following methods.

Banded application:

Apply FONTELIS prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the targeted foliage and surrounding soil surface. Band width should be limited to 6-8 inches or less.

Refer to the Soil Application Rates table.

In-furrow application:

Apply FONTELIS as an in-furrow spray in 3-15 gallons of water at planting. Adjust the spray pattern so the spray is directed into the furrow on the seed and surrounding soil. The spray pattern should be a 4- to 8-inch band that is applied to the seed just prior to being covered with soil. Refer to the Soil Application Rates
Pre-plant incorporation:

Apply FONTELIS to the soil in a band or broadcast spray. Incorporate the FONTELIS to a depth of 1-2 inches using a rototiller, cultivater, rotary hoe, irrigation or similar methodology. Refer to the Soil Application Rates table.

Transplant water application:

Transplants should be adequately watered before transplanting. Ensure transplant water volume is sufficient to thoroughly wet the root zone.

Use 3-5 fl oz of transplant water per plant. Determine the total water gallonage per acre based on the plant population per acre and the fl oz transplant water/plant (3-5 fl oz). Mix the per acre rate of FONTELIS into the partially filled tank, then completely fill the tank. Continue tank agitation through the transplanting process.

Example: 8712 plants/acre x 4 fl oz/ plant = 34,848 fl oz/ acre x 1 gallon/ 128 fl oz = 272.3 gallons/acre total transplant water.

Drip application:

FONTELIS must be applied in a manner that ensures the product is in the root zone to provide effective control of target pests. FONTELIS is most effective when it is applied so that the roots are at or near the site of application. Refer to the Soil Application Rates table.

Manage irrigation so that significant quantities of FONTELIS remain in the root zone.

1. Do not begin applications until after crop emergence in direct seeded crops.

2. Do not make applications if soil moisture is below the level required for active plant growth.

3. This product must be applied uniformly in the root zone or poor performance may result. Drip tape or emitters must be located within or directly adjacent to the root zone.

4. The drip system must be properly designed, free of leaks, and operated in a manner that provides uniform application of water throughout the field.
Limitations, Restrictions, and Exceptions

FOR SUPPRESSION OF PINK ROOT DISEASE OF ONIONS IN THE STATES OF ARIZONA, CALIFORNIA, COLORADO, GEORGIA, IDAHO, MICHIGAN, OREGON, AND WASHINGTON

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read this FIFRA 2(ee) bulletin and the entire label on the product container before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Post-Plant Timing:

For best results, apply FONTELIS at 24 fl oz per acre after planting before seedling onions are beyond the 3 leaf stage. Because Pink Root is a soil borne disease, it is important to protect seedling plants before they become heavily infected. Treatments made after the 3 leaf stage may not be as effective as the Pre-Plant application timing. Post-plant application can be made as a broadcast or banded spray and incorporated via overhead irrigation using at least 0.5 acre inches of water or via overhead chemigation (0.25 - 0.5 inches water/ac).

Method

Broadcast Spray
Band spray

Rates

field_rates 0

Restricted Entry Interval

12 hours

Timings

Postplant