

# **GOLF COURSE TURF - SPRING DEAD SPOT**

General Information

## **PRODUCT INFORMATION**

Read the entire Directions for Use and **CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product.

**Spray Volume** This product may be applied in a minimum of 10 gallons of spray solution per acre by ground sprayer, or in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied. If necessary increase the spray volume per acre for complete crop coverage.

**Chemigation:** Apply this product through irrigation equipment only to crops and diseases for which the chemigation use is specified. Apply this product only through center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non uniform distribution of treated water. If you have questions about calibration you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from

being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. Pesticide may be applied continuously for the duration of the water application.

Mixing: Add labeled amount of this product into the spray tank while filling with water to the desired level. Operate the agitator while mixing. If other materials are added to the spray tank, this product should be thoroughly dispersed prior to the addition of other materials. Do not tank mix with products containing a prohibition against tank mixing. Follow the most restrictive labeling requirements of any tank mix product.

Compatibility: To determine the compatibility of this product with other products, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least five minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. For further information contact your ALTITUDE CROP INNOVATIONS, LLC representative.

#### Resistance Management Statement

This product is a Group 3 fungicide which exhibits no known cross resistance to other fungicide groups. However fungal pathogens are known to develop resistance to products with the same mode of action when used repeatedly. Any fungal population may contain or develop individuals that are resistant to this product and other Group 3 fungicides. If Group 3 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted diseases

the resistant isolates may eventually dominate the fungal population.

Because resistance development cannot be predicted the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotation and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Contact your local extension specialist certified crop advisor and/or manufacturer for fungicide resistance management and/or integrated disease management recommendations for specific crops and resistant disease populations.

ALTITUDE CROP INNOVATIONS, LLC encourages responsible resistance management to ensure effective long term control of the fungal diseases on the label.

Limitations, Restrictions, and Exceptions

DISEASE CONTROL IN GOLF COURSE TURF, FIELD, NURSERY AND CONTAINER ORNAMENTALS AND COMMERCIAL AND RESIDENTIAL LANDSCAPES

Chemigation: Do not apply this product through any type of irrigation system

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES, OR NATURAL PONDS AND ESTUARIES

- Do not apply within 100 feet of the aquatic areas listed above
- Do not cultivate within 10 feet of an aquatic area to allow growth of a vegetation filter strip
- See Spray Drift Management section for further information

Spray Drift Management

Make ground application when wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction toward the aquatic area.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperatures.

Do not make ground applications during temperature inversions. Inversions are

characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**Spray Volume:** For best results this product may be applied in 66 - 132 gallons of water per acre for turf using ground based equipment. For ornamentals 50 - 300 gallons of finished spray per acre are recommended depending upon the equipment, plant species and plant growth stage at time of application. For the most effective results equipment calibration should be checked regularly. When using lower spray volumes be sure to maintain uniform application and full crop coverage so as to ensure effective control. Increase spray volume to ensure proper application if required.

#### Compatibility Test for Mix Components

Before mixing components always perform a compatibility jar test. For 66 gallons per acre spray volume use 5 cups of water in a clear clean mixing jar. For other spray volumes adjust accordingly. Only use water from the intended source at the source temperature. Add components in the sequence indicated below in Mixing Order, using 3 teaspoons for each pound of dry product or 1 1/2 teaspoon for each pint of liquid product of specified label rate per acre. Always cap the jar and invert 10 cycles between component additions. When the components have all been added to the jar and fully mixed let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent and use the compatibility agent as directed on its label.

**Mixing:** Continuous agitation is required during mixing. When mixing this product and water, use the specified application rates as listed for each crop on this label. Before combining any other substances with the mixture ensure that this product is completely dispersed in the mixture.

#### Recommended Mixing Procedure

1. Water - Add three quarters of the required volume to a thoroughly clean sprayer tank.

2. Agitation - Start agitation and maintain constant agitation throughout mixing and application.
3. If an inductor is used rinse it thoroughly after each component has been added.
4. Products in PVA Bags - Place any product contained in water soluble PVA bags into the mixing tank. Wait until all water soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. Water Dispersible Products - Including dry flowables (DF) wettable powders (WP) suspension concentrates (SC) or suspo emulsions (SE).
6. Water soluble products.
7. Emulsifiable concentrates (such as oil concentrates when applicable).
8. Water soluble additives (such as AMS or UAN when applicable).
9. Remaining quantity of water.

## DISEASE CONTROL IN GOLF COURSE TURF

### Turf Use Restrictions and Precautions

For use on golf course turf only.

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational parks, athletic fields, athletic fields located on or next to schools (i.e. elementary middle and high school), campgrounds, churches and theme parks.

Not for homeowner use.

Not for use on turf being grown for sale or commercial use as sod.

Do not use clippings for animal feed.

Do not exceed 3.6 fl. oz. of this product per 1,000 sq ft per year.

### Product Information

For use on all golf turf applications of cool season and warm season grasses (such as Bentgrasses, Bluegrasses, Fescues, Ryegrasses, St Augustine grasses, and Zoysia) or their mixtures.

This product is not phytotoxic to any of the above mentioned grasses when used in accordance with the label.

Note: Bermudagrass can be sensitive to this product under certain conditions. Do not apply consecutive applications during or just after dormancy break. Avoid applications when temperatures are expected to exceed 85 degrees F.

This product can be used for the prevention and control of the diseases mentioned in the table below. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Preventative treatments can be applied using 28 day intervals as indicated. When treating golf greens, always treat aprons and approaches.

Spray uniformly over the area to be treated with properly calibrated equipment. Apply the specified amount of this product in sufficient water for thorough coverage. A volume of 66 - 132 gallons per acre (1,530 gallons per 1,000 sq ft) is recommended. Apply using properly calibrated, low volume, hand held, mechanical or motorized ground broadcast equipment. Application to small areas may be made with low pressure handwand or backpack equipment. Maintain constant agitation during application.

Depending on the disease this product should be watered into the crown and active root zone for best results. Make all applications after mowing and allow foliage to dry thoroughly before irrigation. For best results use spray mixture the same day it is prepared.

#### NOTES:

Immediately after fungicide is applied, irrigate the area with sufficient water to move the active ingredient down into the crown and root zone of the turf. The amount of water is dependent on the depth of root zone.

For prevention begin applications two or four weeks prior to the historical appearance of disease symptoms. Initiate cultural control practices at the same time the fungicide is applied. Refer to your local County Extension Service for this information. Apply subsequent application at 28 day intervals.

#### NOTES:

For prevention apply in fall when soil temperatures reach 65° F and again in spring under similar soil temp conditions or after dormancy break. Immediately after fungicide is applied irrigate the area with sufficient water to move the active ingredient down into the crown and active root zone of the turf. The amount of water is dependent on the depth of the root zone.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

field rates 0

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Timings

In fall when soil temperatures reach 65° F and again in spring under similar soil temp conditions or after dormancy break.