

100-1539

7/16/2014

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**

Office of Chemical Safety and Pollution Prevention

Office of Pesticide Programs

Registration Division (7504P)

1200 Pennsylvania Ave., N.W.

Washington, DC 20460



**NOTICE OF PESTICIDE:**

- Registration
  - Reregistration
- (Under FIFRA, as amended)

EPA Reg.

**100-1539**

Date of Issuance:

**JUL 16 2014**

Term of Issuance:

**Conditional**

Name of Pesticide Product:

**Compendium**

**Name and Address of Registrant (include ZIP Code):**

Syngenta Crop Protection  
P.O. Box 18300  
Greensboro, NC 27419-8300

**Attn:**

Ronald Hampton

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(7)(A) subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/ registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the azoxystrobin Data Call-in identified below in a timely and adequate manner and submit your responses to Kelly Ballard. DCI# GDCI-128810-892, issued on 11/9/2011. A copy of the DCI is attached.

Continued on page 2

Signature of Approving Official:

Shaja B. Joyner  
Product Manager 20, Fungicide Branch

Date:

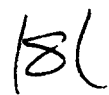
**JUL 16 2014**

- 3. You must comply with all of the data requirements in the referenced order within the deadlines established by the order. In the case of this DCI, those deadlines are measured from 11/9/2011. If you fail to satisfy the requirements in this Order, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e).
- 4. One page 1 of the label, change the product registration number to "EPA Reg. No. 100-1539".

Additionally, within 12 months of the date of this letter, you must submit data reflective of guidelines 830.6317 and 830.6320.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. Submit one copy of the revised final printed label for the record before the product is released for shipment.

The basic CSF dated 1/22/2014 is acceptable and will be added to the regulatory file. Additionally alternate CSFs 1743-1, 1744-1, 1745-1 and 1746-1), each dated 1/22/14 are acceptable and will be added to the regulatory file. A copy of the label stamped "Accepted" is enclosed for your records. If you have any questions, please contact Shaunta Hill at 703-347-8961 / [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov) or myself at 703-308-3194 / [joyner.shaja@epa.gov](mailto:joyner.shaja@epa.gov).



Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7505P)

Enclosures

- Product Chemistry review, dated 3/10/14
- Similarity review, dated 8/22/13

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[Master Label]

**GROUP 11 FUNGICIDE**

**Compendium™**

Broad-spectrum fungicide for prevention and control of turf diseases

**Active Ingredient:**

Azoxystrobin: methyl ( <i>E</i> )-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate* .....	22.9%
Other Ingredients:	77.1%
<b>Total:</b>	<b>100.0%</b>

Compendium contains 2.08 lb of active ingredient per gallon.

Compendium is a suspension concentrate (SC) formulation.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

**Chemigation**

**Do not** apply this product through any irrigation/chemigation system.

EPA Reg. No. 100-XXXX

EPA Est.

- 1 gallon
- 2.5 gallons
- 10 gallons
- Net Contents

<b>ACCEPTED</b>
<b>07/16/2014</b>
<small>Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1539</small>

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<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24-Hour-Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed. Harmful if absorbed through the skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist or vapor.

**Personal Protective Equipment (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

### **User Safety Requirements**

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **Environmental Hazards**

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### **Ground Water Advisory**

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **Surface Water Advisory**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will

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be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify State and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

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## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

### **DIRECTIONS FOR USE**

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

### **FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

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 agency responsible for pesticide regulation.

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### **AGRICULTURAL USES**

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For use to control diseases on turf on Sod Farms.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks



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## NON-AGRICULTURAL USES

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For use to control diseases on turf on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated with Compendium is dry.

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## PRODUCT INFORMATION

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Compendium is a broad-spectrum, systemic fungicide with preventative and curative properties for the control of pathogens causing foliar, stem, and root diseases, including leaf and stem blights, leaf spots, patch diseases, mildews, anthracnose, fairy rings, molds, and rusts of turfgrass listed on this label. Compendium may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered turf-protection products.

Compendium may be used on turf in golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

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## USE PRECAUTIONS AND RESTRICTIONS

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**Adjuvants:** When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

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**DO NOT** apply more than 2.4 gallons of product/A/ per year (7.11 fl oz product/1000 sq ft per year).

**DO NOT** graze or feed clippings from treated turf areas to animals.

**DO NOT** apply Compendium to turf by air.

**DO NOT** apply Compendium where spray drift may reach apple or crabapple trees. Compendium is extremely phytotoxic to certain apple and crabapple varieties.

### **SPRAY DRIFT MANAGEMENT**

**DO NOT** spray when conditions favor drift beyond area intended for application. Conditions that can contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, and spray droplet size. Contact your State extension agent for spray drift prevention guidelines in your area.

**DO NOT** apply when weather conditions favor drift from treated areas to a non-target aquatic habitat.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

### **INTEGRATED PEST (DISEASE) MANAGEMENT**

Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, proper watering, soil 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, accurate identification of causal organisms and selection of the proper fungicide when required.

### **RESISTANCE MANAGEMENT**

Some turf disease pathogens are known to have developed resistance to fungicide products used repeatedly for their control. Compendium should be applied at full use rates in a tank mix or alternation program with other registered fungicides that have a different mode of action. As Compendium is a strobilurin fungicide, **do not** alternate with other strobilurins, such as pyraclostrobin and trifloxystrobin. **Do not** alternate or tank mix Compendium with fungicides to which resistance has already developed.

**Do not** apply more than two sequential Compendium applications for Gray Leaf Spot and *Pythium* spp. control. For all other diseases when Gray Leaf Spot and *Pythium* spp. are not present, **do not** apply more than three sequential applications of Compendium.

Since pathogens differ in their potential to develop fungicide resistance, use the resistance management strategies for each disease given in the **SPECIFIC USE DIRECTIONS** section in this label. Consult your local or state turf authority for resistance management strategies that are complementary to those in this label.

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## MIXING INSTRUCTIONS

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Compendium is a suspension concentrate (SC) formulation.

- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of the rinse water by application to a previously treated area.

### Compendium Alone (No Tank Mix)

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add Compendium to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Compendium has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

### Compendium + Tank Mixtures

Compendium is generally compatible with most tank-mix partners. To determine the physical compatibility of Compendium with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 quart of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been shown, use the same procedure for adding required ingredients to the spray tank.

Compendium has demonstrated some phytotoxic effects when mixed with products that are formulated as ECs. These effects are enhanced if applications are made under cool, cloudy conditions and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.

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- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Compendium to the spray tank.
- Allow Compendium to completely disperse in the tank.
- Spray the tank mixture with the agitator running.

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## **APPLICATION INSTRUCTIONS**

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Compendium should be applied prior to disease development at the rates and timings given in this label. Apply at the higher rates in the rate range and/or shorter spray intervals under conditions of heavy infection pressure, highly susceptible varieties or when environmental conditions are conducive for disease development.

Compendium may be applied with all types of spray equipment commonly used for ground application. Do not apply Compendium through any type of ultra-low volume (ULV) spray system (less than 3 gal/A). Proper adjustment and calibration of spraying equipment is essential for good canopy penetration and coverage.

Mix Compendium with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1000 sq ft (87-174 gal/A). Repeat applications at specified intervals for as long as required. For spot treatments, use 0.4 fl oz Compendium per 1 to 2 gallons of water.

### **For use with soil injection applications**

Compendium may be applied through a liquid fungicide injector for the control of ectotrophic root diseases such as summer patch and take-all patch. Use Compendium only in liquid injection equipment specifically designated for pesticide use.

Apply Compendium at 0.4-0.8 fl oz per 1000 sq ft. Spray carrier volume should fall within 30-150 gallons of water per 1000 sq ft. Injection hole spacing of 1 inch by 1 inch is recommended for optimum control. Injection depth should be no greater than 2 inches. One-inch depth is recommended for optimum results. Application timing should follow disease control strategies used for normal broadcast spray programs.

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

Compendium may be used for control of certain turfgrass diseases associated with turfgrass establishment from seed. Compendium may also be used during overseeding of dormant turfgrass.

Compendium 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 Directions** section.

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**Dollar Spot:** Compendium does not control Dollar Spot. During periods of Dollar Spot pressure, always mix Compendium with Daconil® or another Dollar Spot control fungicide. Compendium is compatible in tank mixes with many other fungicides that control Dollar Spot.

**Table 1: DIRECTIONS FOR USE TO CONTROL LISTED TURF DISEASES**

Target Diseases	Use Rate (fl oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Anthrachnose ( <i>Colletotrichum graminicola</i> )	0.4-0.8	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Bermudagrass Decline ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> )	0.8	28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Brown Patch ( <i>Rhizoctonia solani</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.
Brown Ring Patch ( <i>Waitea circinata</i> var. <i>circinata</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.
Cool Weather Brown Patch Yellow Patch ( <i>Rhizoctonia cerealis</i> )	0.8	28	Make one or two applications in fall or when conditions are favorable for disease development.
Fairy Ring ( <i>Lycoperdon</i> spp., <i>Arachnion</i> spp., <i>Bovista</i> spp., <i>Vascellum</i> spp., and <i>Agrocybe pediades</i> )	0.4-0.8	14-28	Apply preventatively or as soon as possible after fairy ring symptoms develop. Apply only in 4 gallons of water per 1000 sq ft (174 gal/A). Add the recommended rate of a wetting agent to the final spray. Fairy ring symptoms may take 2 to 3 weeks to disappear following curative applications, and reapplication may be required in some cases. Severely damaged or thin turf may require reseeding.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.4-0.8	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	0.4-0.8	14-28	Begin applications before disease is present and continue applications while conditions are favorable for disease development.
Gray Snow Mold Typhula Blight ( <i>Typhula incarnate</i> )	1.4	single application	Make a single application of 1.4 fl oz or two applications of 0.8 fl oz, spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil, may enhance control under severe disease pressure.
	0.8	10-28	
Leaf Rust Stem Rust Stripe Rust ( <i>Puccinia</i> spp.)	0.4-0.8	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Leaf Spot ( <i>Bipolaris</i> spp.)	0.4-0.8	14-21	Apply when conditions are favorable for disease development.
Melting Out ( <i>Drechslera poae</i> )	0.4-0.8	14-21	Apply when conditions are favorable for disease development.
Necrotic Ring Spot ( <i>Leptosphaeria korrae</i> )	0.8	14-28	Apply when conditions are favorable for disease development.
Pink Patch ( <i>Limonomyses roseipellis</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.

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Target Diseases	Use Rate (fl oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Pink Snow Mold ( <i>Microdochium nivale</i> )	1.4	single application	Make a single application of 1.4 fl oz or two applications of 0.8 fl oz, spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil may enhance control under severe disease pressure.
	0.8	10-28	
Powdery Mildew ( <i>Erysiphe graminis</i> )	0.4-0.8	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Pythium Blight Pythium Root Rot ( <i>Pythium aphanidermatum</i> , <i>Pythium</i> spp.)	0.8	10-14	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. During periods of prolonged favorable conditions, treat on the 10-day application interval. For use on newly seeded as well as established turf.
Pythium Root Dysfunction ( <i>Pythium volutum</i> )	0.8	21-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.
Rhizoctonia Large Patch ( <i>Rhizoctonia solani</i> )	0.8	14-28	Make one or two applications in fall or when conditions are favorable for disease development. Spring applications may also be required in some locations or when disease pressure is high.
Leaf and Sheath Spot ( <i>Rhizoctonia zeae</i> )	0.8	14-28	Apply when disease conditions are favorable for disease development.
Southern Blight ( <i>Sclerotium rolfsii</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.
Spring Dead Spot ( <i>Ophiospharella korrae</i> , <i>O. herpotricha</i> , and <i>O. narmari</i> )	0.4-0.8	14-28	Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/8" to 1/4" of irrigation directly after application is recommended. Reapply 14 to 28 days later.
Summer Patch ( <i>Magnaporthe poae</i> )	0.4-0.8	14-28	Apply when conditions are favorable for disease development.
Take-all Patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	0.8	28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development. Make two applications, 28 days apart in the spring and two applications 28 days apart in the fall.
Zoysia Patch ( <i>Rhizoctonia solani</i> and/or <i>Gaeumannomyces</i> <i>incrustans</i> )	0.4-0.8	14-28	Apply 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply 14 to 28 days later.

\*Do not apply more than two sequential applications of Compendium for control of Gray Leaf Spot and *Pythium* spp. For all other diseases when Gray Leaf Spot and *Pythium* spp. are not present, do not apply more than three sequential applications of Compendium.

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**Table 2: Compendium Rate Conversion Chart for Turf**

Fl oz Product per 1000 sq ft	Oz ai per 1000 sq ft	Pints Product per Acre	Gal Product per Acre
0.4	0.10	1.09	0.136
0.6	0.15	1.63	0.204
0.8	0.20	2.17	0.272
1.4	0.35	3.81	0.476

**Table 3: Amount of Compendium to Mix 100 Gallons for Turf Applications**

Product Use Rate (fl oz per 1000 sq ft)	Spray Volume gal per 1000 sq ft (pints product)		
	2.0 gal	3.0 gal	4.0 gal
0.4	1.2	0.76	0.57
0.8	2.4	1.57	1.2
1.4	4.23	2.78	2.07

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Storage**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative of the nearest EPA Regional Office for guidance.

**Container Handling [less than or equal to 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or by other procedures approved by state and local authorities.

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**Container Handling [greater than 5 gallons – mini-bulk]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater than 5 gallons -bulk]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

Compendium™, Daconil®, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON, are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300



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[NON-DETACHABLE CONTAINER LABEL]

**GROUP 11 FUNGICIDE**

**Compendium™**

Broad-spectrum fungicide for prevention and control of turf diseases

Active Ingredient:

Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate*	22.9%
Other Ingredients:	77.1%
<b>Total:</b>	<b>100.0%</b>

Compendium contains 2.08 lb of active ingredient per gallon.

Compendium is a suspension concentrate (SC) formulation.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-XXXX  
EPA Est.

- 1 gallon
- 2.5 gallons
- 10 gallons
- Net Contents

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<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed. Harmful if absorbed through the skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist or vapor.

### Environmental Hazards

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

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Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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### **Ground Water Advisory**

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **Surface Water Advisory**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify State and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

### **Chemigation**

Do not apply this product through any irrigation/chemigation system.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

#### **Storage**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

#### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative of the nearest EPA Regional Office for guidance.

#### **Container Handling [less than or equal to 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining

contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater than 5 gallons – mini-bulk]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater than 5 gallons -bulk]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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