



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

100-1477

Date of Issuance:

8/28/2015

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Ascernity

Name and Address of Registrant (include ZIP Code):

Adora Clark
Syngenta Crop Protection, LLC
P.O. Box 18300
410 Swing Road
Greensboro, NC 27419

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.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(C). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505P

Date:

08/28/2015

2. You are required to submit to the Agency the following studies by the dates indicated below.

- a. Acute oral toxicity to larval honey bees.
- b. Chronic oral toxicity to larval honey bees.
- c. Chronic oral toxicity to adult honey bees.

Protocols for both of the chronic bee studies must be submitted within 60 days of the registration. The deadline for you to submit each of the bee studies is 09/01/18.

Tier II studies are required if triggered by the Tier I studies listed above. In the event Tier III studies are triggered by the Tier II results, they will also be required. If any higher tier studies are necessary, you must submit them to EPA within 3 years of notification by the agency that such higher tier studies are required.

- d. A controlled water monitoring study to provide further data on the environmental fate of benzovindiflupyr in the aquatic environment must be submitted to the Agency. A protocol must be submitted within 90 days of the registration. A preliminary report must be submitted by 12/31/16. An updated report must be submitted by 12/31/17. The completed study must be submitted by 09/01/18. If the EPA does not respond to the submitted protocol within sixty (60) days of receipt, EPA and the Registrant will discuss and agree to reasonable extensions of the dates for submission of the preliminary report and study.
- e. Field study to determine the effectiveness of vegetative filter strips (VFS). The study should address effectiveness relative to run-off reduction, sediment transport rates and delivery totals of benzovindiflupyr in water bodies. A protocol must be submitted within 90 days of the registration. A preliminary report must be submitted by 12/31/16. The deadline for you to submit the study is 09/01/18. If the EPA does not respond to the submitted protocol within sixty (60) days of receipt, EPA and the Registrant will discuss and agree to reasonable extensions of the dates for submission of the preliminary report and study.
- f. Based on the EPA's review of the results of the studies in paragraphs d. and e., EPA may determine either that the study described in paragraph d. must be extended or that other studies or monitoring are needed in order to allow the Agency to continue to conclude that benzovindiflupyr does not pose unreasonable adverse effects on the environment insofar as aquatic risk are concerned as per the agreement letter of August 28, 2015.
- g. In addition to the VFS study, the registrant within one hundred and twenty (120) days of registration must submit plans for an educational program on VFS. The program will start in 2015. It will include educational resources on best practices for construction and maintenance of filter strips and information on the effectiveness of vegetative filter strips as related to their size. The educational resources will be focused on use by landowners and those leasing land. The resources may be generic (not chemical or product-specific) and will be developed in collaboration with partners in the Extension, University, State Lead Agency, and other education communities to meet State and local needs. Copies of all educational materials must be submitted to the Agency. Additionally, status reports on the materials'

creation, distribution efforts, and any public feedback resulting from trainings/dissemination of the materials are required.

- h. An additional chronic (42-d) sediment toxicity study with the freshwater amphipod, *Hyalella azteca*. A protocol must be submitted within ninety (90) days of the issuance of the registration. The deadline for the study is 09/01/17.

If the EPA determines, based on the data submitted pursuant to the conditions in the Notice or on any other data or other information received by the Agency, that one or more label revisions are required to prevent unreasonable adverse effects on the environment insofar as aquatic risks are concerned, EPA may notify the Registrant of the Agency's determination that identified revisions to the label are necessary as per the agreement letter from the Registrant dated August 28, 2015. If labels revisions are necessary to mitigate adverse effects, you must incorporate all revisions identified by the Agency and submit for approval a revised label within sixty (60) days of the Agency's notification to you of the need for such a revised label. In the event of such a revision, product may not be released for shipment under the terms of this registration more than twelve (12) months after the Agency approves such a revised label unless the product bears the appropriate revised label.

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 100-1477."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that with such a reference, the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

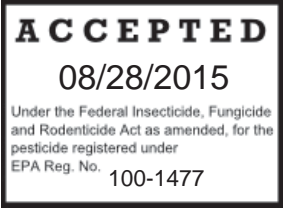
A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 03/27/2013
- Alternate CSF 1 dated 03/27/2013
- Alternate CSF 2 dated 03/27/2013

If you have any questions, please contact Shaunta Hill by phone at 703-347-8961, or via email at hill.shaunta@epa.gov.

GROUP 7 3 FUNGICIDE

Ascernity™



Fungicide

A broad-spectrum fungicide for prevention and control of certain diseases in golf course turfgrasses only

Active Ingredients:

| | | |
|--------------------|-------|--------|
| Benzovindiflupyr* | | 2.24% |
| Difenoconazole** | | 7.48% |
| <hr/> | | |
| Other Ingredients: | | 90.28% |
| <hr/> | | |
| Total: | | 100.0% |

*CAS No. 1072957-71-1

**CAS No.119446-68-3

Ascernity™ contains 0.20 lb of bezovindiflupyr and 0.66 lb of difenoconazole per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-RUTT

EPA Est.

Net Contents:

| FIRST AID | |
|---|---|
| If in eyes | <ul style="list-style-type: none">• 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 eye.• Call a poison control center or doctor for treatment advice. |
| If swallowed | <ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.• Do not give anything by mouth to an unconscious person. |
| If on skin or clothing | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice. |
| If inhaled | <ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| HOT LINE NUMBER 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

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wear protective eyewear.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton®.

User Safety Requirements

Follow 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.

Engineering Control Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

Benzovindiflupyr and difenoconazole are toxic to fish, mammals and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated area. 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. Do not contaminate water when disposing of equipment washwater or rinsate.

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. Do not apply within 15 feet of surface water features such as ponds, streams, and springs. Avoid applications when rainfall is expected to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

Physical or Chemical Hazards

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reactions may occur.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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. Turf 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.**

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.

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.

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. Keep children and pets out of the treated area until sprays have dried.

PRODUCT INFORMATION

Ascernity is a broad-spectrum product containing two fungicides. It has preventative, systemic and curative properties. Ascernity provides excellent disease control of many major turfgrass diseases. Ascernity may be applied as a foliar spray and integrated into a resistance management program. All applications should be made according to the use directions that follow.

USE RESTRICTIONS AND PRECAUTIONS

DO NOT apply more than 2.0 fl oz of Ascernity per 1,000 sq ft per year (88 fl oz ascernity per acre per year).

DO NOT apply within 15 feet of any golf course water body.

DO NOT apply by air.

DO NOT apply through irrigation systems (chemigation).

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

USE INFORMATION

Application: Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. For control of foliar diseases, allow Ascernity to completely dry prior to irrigating. For control of soil borne diseases Ascernity can be watered in after application.

Adjuvants: When an adjuvant is to be used with this product, Syngenta recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of Ascernity has been used. If isolates resistant to Group 3 or Group 7 fungicides are present, efficacy can be reduced for certain diseases. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure with highly susceptible varieties, or when environmental conditions are conducive to disease.

Integrated Pest Management (IPM): Ascernity should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. 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, 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.

Resistance Management

Ascernity contains two fungicides – benzovindiflupyr, an SDHI fungicide in Group 7 and difenoconazole, a triazole fungicide in Group 3. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating 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 this label. Ascernity should not be alternated or tank mixed with any fungicide to which resistance has already developed.

Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. Ascernity should be alternated with other registered

fungicides that have a different mode of action and to which pathogen resistance has not developed. Since Ascernity is an SDHI fungicide (Group 7 fungicide) and a DMI fungicide (Group 3 fungicide), avoid alternation with other SDHI and DMI fungicides.

Turfgrass Tolerance: Ascernity plant tolerance has been found to be safe for all turfgrass species on the label; however, not all possible tank-mix combinations have been tested under all conditions. When possible, test the combinations on a small portion of the turf to ensure that a phytotoxic response will not occur as a result of application.

Spray Drift Management: To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment- and weather-related factors determines the potential for spray drift. **AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.**

MIXING AND APPLICATION METHODS

Spray Equipment

Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Nozzles should be the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Screens placed on suction side of pump should be *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's recommendations.

Pump

- Use a pump with capacity to:
 1. Maintain 35-40 psi at nozzles.
 2. Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural recommendations.

Mixing Instructions

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Ascernity to the tank, allowing time for good dispersion, then add an adjuvant, if recommended. If tank mixes are required, product should be added to the spray tank in the following order: WG or dry flowable formulations, wettable powders and flowable (aqueous suspensions) products. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application. Do not use silicone based products with Ascernity due to possible phytotoxicity.

If spray-tank mixture is unsprayed for more than 18 hours (overnight), re-suspend product with agitation for 20 minutes.

- Ascernity is an SL (Soluble Liquid) 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 pesticide rinsate by application to an already treated area.

Ascernity 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 Ascernity to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Ascernity has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Ascernity + Tank Mixtures: Ascernity is usually compatible with many tank-mix partners registered for use on turf.

If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state turf authority for compatibility information. Do not combine Ascernity in the spray tank with pesticides, surfactants, or fertilizers; unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use.

To determine the physical compatibility of Ascernity with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt. 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 proven, use the same procedure for adding required ingredients to the spray tank.

Mixing in the Spray Tank

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

Application Instructions

Ascernity may be applied with all types of spray equipment commonly used for making ground applications. Proper adjustments and calibration of spraying equipment to give good coverage is essential for good disease control.

Ground Application

- Apply in sufficient water to provide good coverage. Typical application volumes range from 30 to 175 gallons of spray per acre.
- Thorough coverage is necessary to provide good disease control.

SPECIFIC USE DIRECTIONS

Ascernity controls certain pathogens causing foliar, stem, and root diseases, including leaf and stem blights, leaf spots, patch diseases, mildews, anthracnose, fairy rings, molds, and rusts.

| Target Diseases | Use Rate (fl oz product per 1000 sq ft) | Use Rate (fl oz product per acre) | Application Interval (days) | Remarks* |
|--|---|--|-----------------------------------|---|
| Anthracnose (<i>Colletotrichum cereale</i>) | 0.75 to 1.0 | 33-44 | 14 | Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. For optimum disease control tank mix or alternate Ascernity with a contact fungicide such as Daconil Action, Daconil Weatherstik or Daconil Ultrex. |
| Brown Patch (<i>Rhizoctonia solani</i>) | 0.75 to 1.0 | 33-44 | 14-21 | Apply when conditions are favorable for disease development. |
| Large patch / zoysia patch (<i>Rhizoctonia solani</i>) | 0.75 to 1.0 | 33-44 | 14-21 | For large patch of all warm-season turfgrasses, make 1 or 2 applications in fall prior to infection or when conditions are favorable for infection. A spring application during green-up may be required based on length of the infection period. Initiate first application for large patch/zoysia patch when soil temperature at a 2 – 4” depth average 65°F. |
| Leaf and Sheath Spot (<i>Rhizoctonia zeae, Waitea circinata</i> var. <i>zeae</i>) | 1.0 | 44 | 14-21 | For Leaf and Sheath Spot, apply when conditions are favorable for infection. Curative control may necessitate several applications, use higher rates and shorter intervals for curative control. Target spray applications at crown of turfgrass. |
| Brown Ring Patch <i>Waitea circinata</i> var. <i>circinata</i> | 1.0 | 44 | 14-21 | Apply when conditions are favorable for disease development. |
| Cool Weather Brown Patch, Yellow Patch (<i>Rhizoctonia cerealis</i>) | 1.0 | 44 | 14-21 | Make 1 or 2 applications in fall or when conditions are favorable for disease development. |
| Dollar Spot (<i>Sclerotinia homoeocarpa</i>) | 1.0 | 44 | 14-21 | Apply preventatively when conditions are favorable for disease development. For optimum disease control alternate or tank mix Ascernity with a contact fungicide such as like Daconil Action or Secure. |

| Target Diseases | Use Rate (fl oz product per 1000 sq ft) | Use Rate (fl oz product per acre) | Application Interval (days) | Remarks* |
|---|---|--|-----------------------------------|---|
| Fairy Ring (<i>Lycoperdon</i> spp., <i>Arachnion</i> spp., <i>Bovista</i> spp., <i>Vascellum</i> spp., and <i>Agrocybe</i> <i>pediades</i>) | 1.0 | 44 | 14-28 | For preventative control of fairy ring, apply early in the Spring prior to the development of symptoms. Apply in 2-4 gallons water per 1,000 sq ft. Irrigate into the thatch prior to the spray drying. Repeat the application within 14 – 28 days after first application. For curative control, apply as soon as possible after fairy ring symptoms develop. Apply in 2-4 gallons water per 1000 sq ft, irrigate lightly after application. Add the specified rate of a wetting agent to the final spray. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. If the area is hydrophobic use wetting agents and irrigate prior to application(s) of Ascernity. Reapplication after 28 days may be required in some cases. |
| Snow mold Gray (<i>Typhula</i> spp.) Pink (<i>Microdochium</i> <i>nivale</i>) | 1.0 | 44 | Late fall | Apply one application in the late fall before snow cover. Do not apply on top of snow. For optimum disease control tank mix with a fungicide from a different FRAC group such as Daconil, Secure or Medallion. |
| Microdochium Patch (<i>Microdochium</i> <i>nivale</i>) | 1.0 | 44 | 14 | Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. |
| Gray Leaf Spot** (<i>Pyricularia grisea</i>) | 1.0 | 44 | 14 | Use Ascernity in a preventative disease control program. Begin applications before disease is present and alternate with other fungicide chemistries that control gray leaf spot. |
| Copper Spot (<i>Gloeocercospora</i> <i>sorghii</i>) | 1.0 | 44 | 14 | Use Ascernity in a preventative disease control program. Begin applications before disease is present and alternate with other fungicide chemistries that control copper spot. |
| Leaf Rust Stem Rust Stripe Rust (<i>Puccinia</i> spp.) | 1.0 | 44 | 14-21 | Begin applications when conditions are favorable for disease infection, prior to disease symptom development. |
| Leaf Spot (<i>Bipolaris</i> <i>sorokiniana</i> , <i>Bipolaris</i> <i>cynodontis</i> , <i>Bipolaris</i> spp.) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development. |

| Target Diseases | Use Rate (fl oz product per 1000 sq ft) | Use Rate (fl oz product per acre) | Application Interval (days) | Remarks* |
|---|---|--|-----------------------------------|---|
| Melting Out (<i>Drechslera poae</i>) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development |
| Necrotic Ring Spot (<i>Ophiosphaerella korrae</i>) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development. |
| Pink Patch (<i>Limonomyses roseipellis</i>) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development. |
| Powdery Mildew (<i>Erysiphe graminis</i>) | 0.5 to 1.0 | 22-44 | 14 to 21 | Begin applications when conditions are favorable for disease infection, prior to disease symptom development. |
| Red Thread (<i>Laetisaria fuciformis</i>) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development. |
| Southern Blight (<i>Sclerotium rolfisii</i>) | 1.0 | 44 | 14 | Apply when conditions are favorable for disease development. |
| Summer Patch (<i>Magnaporthe poae</i>) | 1.0 | 44 | 14 | Initiate applications when soil temperatures reach 65°F at a 2 inch soil depth. |
| Take-all Patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>) | 1.0 | 44 | 14 | Begin applications prior to disease symptom development. Make two applications 28 days apart in the spring and two applications 28 days apart in the fall. |
| Spring Dead Spot (<i>Ophiosphaerella korrae</i> , <i>O. herpotricha</i>) | 1.0 | 44 | 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. |
| Algae | 1.0 | 44 | 14 | For optimum control of algae Ascernity should be tank mixed or alternated with a fungicide containing Daconil such as Daconil Action, Daconil WeatherStik, Daconil Ultrex, Concert or Renown. |

*Do not apply more than 2.0 fl oz Ascernity per 1,000 square feet per year (88 fl oz Ascernity per acre per year).

**Do not make more than two sequential applications of Ascernity for control of Gray Leaf Spot. For all other diseases when Gray Leaf Spot is not present, do not make more than three sequential applications of Ascernity.

One gallon (128 fl oz) Ascernity contains 0.20 lb benzovindiflupyr and 0.66 lb difenoconazole.

**Ascernity: Rate Conversion Chart for Turf
Product Conversion Table**

| Fl oz product/1000 sq ft | Fl oz Product Per Acre | Maximum Yearly Applications |
|--------------------------|------------------------|-----------------------------|
| 0.5 | 22 | 4 |
| 0.75 | 33 | 2 |
| 1.0 | 44 | 2 |

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original container only. Store in a cool, dry and well-ventilated place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed.

Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

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, or 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 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 use 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.

Ascernity™, Concert®, Daconil Action™, Daconil Ultrex®, Daconil Weatherstik®, Medallion®, Renown™ are trademarks of a Syngenta Group Company.

Viton® is a trademark of E. I. DuPont de Nemours & Co., Inc.

Secure™ is a trademark of ISK Biosciences Corporation.

©20__ Syngenta

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

Ascernity – pd – 11/16/12 (pl – 11/19/12)
000100.XXXXX.20121126.Ascernity_New.pdf

Ascernity NEW NOV2012-Version B-Hilite – pl – 7/7/15
000100-ORUTT.20121126B.ASCERNITY_NEW_NOV2012-HI.pdf

Ascernity NEW NOV2012-Version C-Hilite – pl – 8/27/15
000100-ORUTT.20150827C.ASCERNITY.NEW.NOV2012.HI.pdf

Ascernity NEW NOV2012-Version C-Clean – pl – 8/27/15
000100-ORUTT.20150827C.ASCERNITY.NEW.NOV2012.pdf