

66330-325

03/06/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Bill Washburn  
Regulatory Manager  
Arysta LifeScience North America LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

MAR 6 2009

Subject: Label Notification(s) for Pesticide Registration Notices 2007-4 and 98-10

1. **Update of company name**
2. **Added emergency telephone number(s)**
3. **Updated warranty statement**

Dear Mr. Washburn:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated February 4, 2009 for:

**EPA Registration 66330-325      Propiconazole 14.3% T&O**

The Registration Division (RD) has conducted a review of this request for applicability under PR Notices 2007-4 and 98-10 and finds that the label changes requested falls within the scope of PR Notices 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

- Registration
- Amendment
- Other:

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number <b>66330-325</b>	2. EPA Product Manager <b>MARY WALLER</b>	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>PROPICONAZOLE 14.3% T&amp;O</b>	PM# <b>21</b>	
5. Name and Address of Applicant (Include ZIP Code)  <b>Arysta LifeScience North America, LLC          15401 Weston Parkway, Suite 150          Cary, NC 27513</b>	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**NOTIFICATION**  
**MAR 6 2009**

Check if this is a new address

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Notification of label change per PR Notice 2007-4.** This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Notification of label change per PR Notice 98-10.** This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.    No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
*Certification must be submitted			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container  <b>1.0 gal., 2.5 gal, 5.0 gal</b>	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Bill Washburn</b>	Title <b>Regulatory Manager</b>	Telephone No: (Include Area Code) <b>901-432-5118</b>
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature  	3. Title <b>Regulatory Manager</b>	
4. Typed Name <b>Bill Washburn</b>	5. Date <b>02/04/09</b>	



February 4, 2009

*DL*

Ms. Mary Waller, PM 21  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs – 7504P  
U.S. Environmental Protection Agency  
One Potomac Yard, Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

**Subject: PROPICONAZOLE 14.3% T&O  
EPA Reg. No. 66330-325**

***Notification of Label Change per PR Notice 2007-4  
and PR Notice 98-10***

Dear Ms. Waller:

Please find the following enclosed:

- Application for Pesticide Registration (Other) dated 02/04/09.
- One highlighted copy of subject label, showing all changes.
- One clean copy of the subject label.

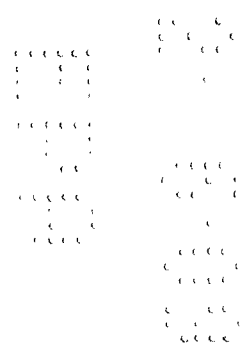
Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Also in this submission, we are using PR Notice 98-10 to update the name of the company, emergency telephone numbers and warranty. Arysta LifeScience North America Corporation was changed to Arysta LifeScience North America, LLC.

Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at [bill.washburn@arystalifescience.com](mailto:bill.washburn@arystalifescience.com)

Sincerely,

Bill Washburn  
Regulatory Manager



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PR Notice 2007-4

**NOTIFICATION**

**MAR 6 2009**

**PROPICONAZOLE 14.3% T&O**

Fungicide

**Broad spectrum and systemic disease control for turf and ornamentals**

**ACTIVE INGREDIENT:**

Propiconazole . . . . .14.3%

OTHER INGREDIENTS: . . . . .85.7%

TOTAL: . . . . .100.0%

PROPICONAZOLE 14.3% T&O contains a nominal 1.3 lbs. of active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN.**

**WARNING / AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

**IF IN EYES:** 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 INHALED:**

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.

**IF ON SKIN OR CLOTHING:**

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 SWALLOWED:**

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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** If ingested, induce emesis or lavage stomach. Treat symptomatically.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

EPA Reg. No. 66330-325  
AD 091902

EPA Est. No. 51036-GA-001

NET CONTENTS: \_\_\_\_\_

Manufactured For:  
ARYSTA LIFESCIENCE NORTH AMERICA, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**WARNING/AVISO:** Causes substantial, but temporary eye injury. DO NOT get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing vapor or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT**

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

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PCV), or viton
- 3. Shoes plus socks
- 4. Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROL STATEMENTS**

When handlers use closed systems or enclosed cabs 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:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothes.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. DO NOT apply directly to water, 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 wash water.

**PHYSICAL OR CHEMICAL HAZARDS**

DO NOT use or store near heat or open flame.

**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.

**NOTE: DO NOT apply more than 5.4 gals. of PROPICONAZOLE 14.3% T&O/A/calendar year.**

**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) 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 24 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:

1. Coveralls
2. Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or viton
3. Shoes plus socks
4. Protective eyewear

**NON-AGRICULTURAL USE REQUIRMENTS**

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.

DO NOT enter treated areas without protective clothing until sprays have dried.

**STORAGE AND DISPOSAL**

**Pesticide Disposal:** DO NOT contaminate water, food, or feed by storage or disposal. Pesticide wastes are 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 Disposal:** Nonrefillable 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. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. Stay out of smoke from burning containers.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call CHEMTREC 1-800-424-9300 day or night.

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

**GENERAL INFORMATION**

PROPICONAZOLE 14.3% T&O is a systemic fungicide for use on turfgrasses for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Laetisaria fuciformis*), pink patch (*Limonomyces roseipellis*), rust (*Puccinia graminis*), powdery mildew (*Erysiphe graminis*), stripe smut (*Ustilago striiformis* and *Urocystis agropyri*), summer patch (*Magnaporthe poae*), necrotic ring spot (*Leptosphaeria korrae*), spring dead spot (*Leptosphaeria korrae*, *Leptosphaeria narmari*, *Ophiosphaerella herpotricha*, *Gaeumannomyces graminis*), take-all patch (*Gaeumannomyces graminis*), leafspot (*Bipolaris spp.*, *Drechslera spp.*) gray leafspot (*Pyricularia grisea*), pink snowmold (*Microdochium nivale*), Fusarium patch (*Fusarium nivale*), gray snowmold (*Typhula spp.*), yellow patch (*Rhizoctonia cerealis*), and zoysia patch (*Rhizoctonia solani*).

PROPICONAZOLE 14.3% T&O also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews, rusts, leafspots, scabs, and blights. Refer to the appropriate section for specified diseases and plants.

DO NOT apply this product through any type of irrigation system. DO NOT use PROPICONAZOLE 14.3% T&O as a tree injection.

**MIXING INSTRUCTIONS**

Fill the spray tank 1/2 - 3/4 full with water. Add the proper amount of PROPICONAZOLE 14.3% T&O and then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.



If PROPICONAZOLE 14.3% T&O is tank mixed with other products, use the following sequence:

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of PROPICONAZOLE 14.3% T&O, other chemicals to be used, and the water, before mixing in the spray tank.
2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
3. Fill tank at least ½ full of clean water.
4. Add wetttable powders to the tank first, allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank.
5. Add flowables or suspensions next.
6. Add PROPICONAZOLE 14.3% T&O next.
7. Add emulsifiable concentrates last.
8. DO NOT leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

**TANK MIXES**

For broader spectrum control, PROPICONAZOLE 14.3% T&O can be tank mixed with other fungicides. For example, Subdue® may be tank mixed with PROPICONAZOLE 14.3% T&O or used alone when conditions are favorable for Pythium light. PROPICONAZOLE 14.3% T&O is also compatible with numerous herbicides and insecticides. Check compatibility before tank mixing. Add Unite® (3pts./100 gals.) to tank mixes which are incompatible. Follow the directions under Mixing Instructions for tank mixes. Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

**TURFGRASS AND DICHONDRA DISEASE CONTROL**

1. USE PROPICONAZOLE 14.3% T&O IN A PREVENTIVE DISEASE CONTROL PROGRAM.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.

1. For control of soil-borne diseases, PROPICONAZOLE 14.3% T&O can be watered in after application.
2. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
3. For optimum turf quality and disease control, use PROPICONAZOLE 14.3% T&O in conjunction with turf management practices that promote good plant health and optimum disease control.
4. Evaluate spray additives prior to use. Label directions are based on data obtained with not additives.
5. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of the diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
6. DO NOT apply more than 16 fl. oz./1,000 ft.<sup>2</sup>/calendar year.

**IMPORTANT:** Bermudagrass can be sensitive to PROPICONAZOLE 14.3% T&O. Do not exceed 4 fl. oz./1,000 sp. ft. every 30 days on any variety of bermudagrass. In FL, DO NOT apply PROPICONAZOLE 14.3% T&O to bermudagrass golf course greens when temperatures exceed 90°F.

**NOTE:** DO NOT graze animals on treated areas. DO NOT feed clippings from treated areas to livestock or poultry.

**TURFGRASS - SPECIFIC DISEASES, RATES, AND APPLICATION TIMING**

Disease	Fl. Oz. Per 1,000 sq. ft.	Fl. Oz. Per Acre	Appl. Interval/ Timing	Instructions
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	0.5	22	7 days	Apply when conditions are favorable for disease development.
	0.5	22	14 days	Tank Mix with low label rate of one of the following fungicides: Daconil 2787® F Daconil Ultrex™
	1	44	21-28 days	Tank Mix with low label rate of one of the following fungicides: Daconil 2787® F Daconil Ultrex™ Iprodione 2SE
	1-2	44-88	14-28 days	If using the 1-2 fl. oz./1,000 sq. ft. rate without tank mixing, make no more than 3 consecutive applications for dollar spot control before rotating to an alternate EPA-registered fungicide having a different mode of action.

Disease	Fl. Oz. Per 1,000 sq. ft.	Fl. Oz. Per Acre	Appl. Interval/ Timing	Instructions
<b>Anthracnose</b> <i>(Colletotrichum graminicola)</i>	1-2	44-88	14-28 days	Apply when conditions are favorable for disease development. When disease pressure is high, use higher rates of PROPICONAZOLE 14.3% T&O and shorter intervals. For broad-spectrum control, tank mix with a registered contact fungicide at the label rate.  If disease is present, mix 2 fl. oz. Of PROPICONAZOLE 14.3% T&O per 1,000 sq. ft. with the label rate of the above mentioned contact fungicides.
<b>Brown Patch</b> <i>Rhizoctonia solani</i>	1-2	44-88	14-21 days	Begin applications in May or June before disease is present. Tank mix with a registered contact fungicide labeled for brown patch control at the label rate.  Under conditions of high temperatures and high humidity, use the higher rates of PROPICONAZOLE 14.3% T&O and shorter intervals.
<b>Powdery Mildew</b> <i>(Erysiphe graminis)</i> <b>Rust</b> <i>(Puccinia graminis)</i>	1-2	44-88	14-28 days	Apply when conditions are favorable for disease development. If disease is present, use 2 fl. oz. Of PROPICONAZOLE 14.3% T&O per 1,000 sq. ft.
<b>Red Thread</b> <i>(Laetisaria fuciformis)</i> , <b>Pink Patch</b> <i>(Limonomyces roseipellis)</i>	2	88	14-21 days	Apply when conditions are favorable for disease development.
<b>Stripe Smut</b> <i>(Ustilago striiformis)</i> <i>(Urocystis agropyri)</i>	1-2	44-88	Fall or Spring	Apply once in the fall after grass becomes dormant or in the early spring before grass starts to grow.
<b>Gray Leafspot</b> <i>(Pyricularia grisea)</i>	1-2	44-88	14 days	Apply when conditions are favorable for disease development. If using the 1 fl. oz./1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate.
<b>Melting Out, Leaf Spot</b> <i>(Bipolaris spp.)</i> <i>(Drechslera</i>	1-2	44-176	14 days	Under light to moderate pressure, apply PROPICONAZOLE 14.3% T&O to reduce the severity of leaf spot and melting out caused by Helminthosporium-type pathogens.

Disease	Fl. Oz. Per 1,000 sq. ft.	Fl. Oz. Per Acre	Appl. Interval/ Timing	Instructions
<i>spp.</i> )				For broad spectrum disease control, tank mix the 1 fl. oz. PROPICONAZOLE 14.3% T&O rate with registered contact fungicide at the label rate.  Tank mix the 1-2 fl. oz./1,000 sq. ft. PROPICONAZOLE 14.3% T&O rate with a registered contact fungicide at the label rate.
<b>Summer Patch, Poa Patch</b> ( <i>Magnaporthe poae</i> )	2  4	88  176	14 days  28 days	Apply PROPICONAZOLE 14.3% T&O beginning in April. Use the 4 fl. oz./1,000 sq. ft. rate on a 28 day schedule and the 2 fl. oz./1,000 sq. ft. rate on a 14 day schedule.
<b>Take-All Patch</b> ( <i>Gaeumannomyces graminis</i> )	2-4	88-176	Spring and Fall	Apply PROPICONAZOLE 14.3% T&O to reduce the severity of take-all patch. Make 1-2 fall applications in September and October or when night temperatures drop to 55°F, and 1-2 spring applications in April and May, depending on local recommendations.
<b>Spring Dead Spot</b> ( <i>Leptosphaeria korrae</i> , <i>Leptosphaeria narmari</i> , <i>Ophiosphaerella herpotricha</i> , <i>Gaeumannomyces graminis</i> )	4	176	30 days	Make 1-3 applications. For one application, apply in September or October. For multiple applications, begin sprays in August.
<b>Necrotic Ring Spot</b> ( <i>Leptosphaeria korrae</i> )	4	176	Fall or Spring	Apply in the fall and/or the early spring depending on local recommendations.
<b>Snowmold Gray</b> ( <i>Typhula spp.</i> ) <b>Pink</b> ( <i>Microdochium nivale</i> )	2-4	88-176	Late Fall	Apply one application in the late fall before snow cover. DO NOT apply on top of snow. For optimum disease control, the 2 and 3 fl. oz. PROPICONAZOLE 14.3% T&O rates should be tank mixed with either PCNB or chlorothalonil at label rates.
<b>Fusarium patch</b> ( <i>Fusarium nivale</i> )	2-4	88-176	Fall-Early Spring	Apply when conditions are favorable for disease development.
<b>Yellow patch</b> ( <i>Rhizoctonia cerealis</i> )	3-4	130- 176	Late Fall	Apply one application in the late fall before snow cover. DO NOT apply on top of snow. If using a 3 fl. oz./1,000 sq. ft. rate, tank

Disease	Fl. Oz. Per 1,000 sq. ft.	Fl. Oz. Per Acre	Appl. Interval/ Timing	Instructions
				mix with a registered contact fungicide at the label rate.
<b>Zoysia patch,</b> Large patch of zoysia ( <i>Rhizoctonia solani</i> )	3-4	130-176	Early Fall	Make one application in the early fall (mid-September to mid-October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine the optimum application timing for your area.

**DICHONDRA - SPECIFIC DISEASE, RATE, AND APPLICATION TIMING**

Disease	Fl. Oz. Per 1,000 sq. ft.	Fl. Oz. Per Acre	Appl. Interval / Timing	Instructions
<b>Dichondra Rust</b> ( <i>Puccinia dichondrae</i> )	2	88	14-21 days	Apply when conditions are favorable for disease development.

**ESTABLISHMENT OF COOL SEASON TURFGRASS**

PROPICONAZOLE 14.3% T&O provides control of many diseases of turf, and its primary use is as a fungicide for use against the diseases listed on this label. As an additional benefit, PROPICONAZOLE 14.3% T&O will improve the rate of establishment when it is applied to cool season grass seedlings or sod.

New Seedlings: Apply 1 fl. oz./1,000 sq. ft. at the 2 to 3-leaf stage of growth for faster root development and top growth.

Sod: Apply 1 fl. oz./1,000 sq. ft. 2-6 weeks before cutting for increased sod knitting and faster establishment after laying.

**DISEASE CONTROL IN NURSERIES (FIELD) AND LANDSCAPE PLANTINGS**

1. USE PROPICONAZOLE 14.3% T&O IN A PREVENTIVE DISEASE CONTROL PROGRAM. To determine the use directions for controlling a disease on an ornamental plant species, select the plant species in Table 1. The number in parentheses following the plant species refers you to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers you to the application regime in Table 3.
2. Allow spray to dry before overhead irrigation is applied.
3. Optimum benefit of PROPICONAZOLE 14.3% T&O is obtained when used in conjunction with sound disease management practices.

**GENERAL RECOMMENDATIONS**

PROPICONAZOLE 14.3% T&O may be used at rates of 2-24 fl. oz./100 gal's. of water for control of diseases of ornamental plant species (see Tables, 1, 2, and 3).

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NOTE: For outdoor uses, you can apply up to 5.4 gals. of PROPICONAZOLE 14.3% T&O/acre/crop/calendar year.

For general disease control in landscapes, apply 6-8 fl. oz./100 gals. of water every 21 days. For best control, begin PROPICONAZOLE 14.3% T&O applications before disease development.

**NOTE:** Plant tolerances to PROPICONAZOLE 14.3% T&O have been found acceptable for the specific genera and species of plants listed under the Directions For Use. In addition, crop tolerance to PROPICONAZOLE 14.3% T&O has been demonstrated (at a rate of 6-8 fl. oz./100 gals.) on the following ornamental plants: ajuga, Bartlett pear, bayberry camellia, candy tuft, cotoneaster, elm, English ivy, euonymus, German Statice, holly, hollyhock, impatiens, linden, liriope, magnolia, maples, peony, privet, raphiolepis, redbud, sweetgum, sycamore, tulip tree, vinca, and wax myrtle. Other plant species may be sensitive to PROPICONAZOLE 14.3% T&O and diseases other than those listed may not be controlled. Before using PROPICONAZOLE 14.3% T&O on plants or for diseases that are not listed in the Directions For Use, test PROPICONAZOLE 14.3% T&O on a small scale basis first. DO NOT apply PROPICONAZOLE 14.3% T&O to African violets, begonias, Boston fern, or geraniums. Apply the recommended rates for a particular type of disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to widespread use.

Table 1. Ornamentals - Plant Species  
Numbers in parentheses refer to diseases controlled. See Table 2.

Herbaceous Ornamental	Woody Ornamental	Nonbearing Fruits and Nuts (Nurseries and Landscape Plantings)
Calendula (4a)	Amelanchier (4d)	Apple (3q, 4d, 5a)
Carnation (5f)	Ash (4c)	Cherry (2b, 3d)
Chrysanthemum (2a)	Azalea (2c, 4b)	Citrus (3m)
Delphinium (4a)	Crabapple (3c, 3q, 4c, 5a)	Nectarine (2b)
Gomphrena (3a)	Crape Myrtle (4a)	Peach (2b)
Iris (5d)	Dogwood (3h, 4c)	Pecan (3b, 3c, 3f, 3l, 3n, 4e)
Marigold (3a)	Douglas Fir (5b)	Plum (2b)
Monarda (4c)	Hawthorn (5a)	Walnut (3j)
Phlox (4c)	Juniper (1a)	
Snapdragon (5d)	Lilac (4c)	
Sweet William (3k)	Oaks (3p)	
( <i>Dianthus barbatus</i> )	Pines (1b, 1c)	
Zinnia (4c)	Poplars (5b)	
	Pyracantha (3o)	
	Red Tip Photinia (3i)	
	Rhododendron (2c, 3n)	
	Roses (3g, 4e, 5c)	
	(Outdoor Use Only)	
	Shasta Fir (5e)	

Table 2. Diseases

Letters in brackets refer to application regimes. See Table 3.

- 
- 1. Conifer Blights
    - a. *Phomopsis juniperovora* (Phomopsis Blight) [B]
    - b. *Sirococcus strobolinus* (Tip Blight) [D]
    - c. *Sphaeropsis sapinea* (Diplodia Tip Blight) [B]
  
  - 2. Flower Blight
    - a. *Ascochyta chrysanthemi* (Ray Blight) [C]
    - b. *Monilinia* spp. [A]
    - c. *Ovulinia* spp. [B]
  
  - 3. Leaf Blights/Spots
    - a. *Alternaria* spp. [B]
    - b. *Cercospora* spp. (Brown Leaf Spot) [C]
    - c. *Cladosporium* spp. (Scab) [C]
    - d. *Coccomyces hiemalis* [A]
    - e. *Colletotrichum* spp. [B]
    - f. *Cristulariella* spp. (Zonate leafspot) [C]
    - g. *Diplocarpon rosae* (Blackspot) [B]
    - h. *Discula* spp. (Anthracnose) [A]
    - i. *Fabraea maculata* (syn. *Entomosporium maculata*) [B]
    - j. *Gnomonia leptostyla* (Anthracnose) [C]
    - k. *Heterosporium echinulatum* [B]
    - l. *Mycosphaerella caryigena* (Downy Spot) [C]
    - m. *Mycosphaerella fructicola* (Greasy Spot) [E]
    - n. *Septoria* spp. (Leaf Scorch) [C]
    - o. *Spilocaea pyracanthae* [B]
    - p. *Tubakia dryina* [D]
    - q. *Venturia inaequalis* (Scab) [A]
  
  - 4. Powdery Mildew
    - a. *Erysiphe* spp. [B]
    - b. *Microsphaera* spp. [C]
    - c. *Oidium* spp. [B]
    - d. *Podosphaera* spp. [B]
    - e. *Sphaerotheca pannosa* [B]
  
  - 5. Rust
    - a. *Gymnosporangium juniperi-virginianae* [A]
    - b. *Melampsora occidentalis* [D]
    - c. *Phragmidium* spp. [B]
    - d. *Puccinia* spp. [B]
    - e. *Pucciniastrum goeppertianum* [D]
    - f. *Uromyces dianthi* [B]

Table 3. Application Regimes

[A] Mix 2-4 fl. oz. Of PROPICONAZOLE 14.3% T&O in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-21 days during the period of primary infection. If disease is present, tank mix with an EPA-registered contact fungicide. For flower blight, apply PROPICONAZOLE 14.3% T&O when there is 5-10% bloom and again at

70-100% bloom. For dogwoods, apply the 2-4 fl. oz. Rate every 14 days, or apply 8 fl. oz. of PROPICONAZOLE 14.3% T&O every 28 days.

- [B] Mix 5-8 fl. oz. of PROPICONAZOLE 14.3% T&O in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply as needed, beginning when conditions are favorable for disease development. For blackspot, apply with a registered contact fungicide labeled for blackspot. For Calendula, apply every 30 days. For diplodia tip blight, make 3 applications every 14 days prior to major period of infection. For juniper phomopsis blight, make first application as soon as junipers start to grow, and repeat the applications every 14-21 days during periods of active growth.
- [C] Mix 8-12 fl. oz. of PROPICONAZOLE 14.3% T&O in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 30 days, beginning when conditions are favorable for the disease development. For pecans, apply the 12 fl. oz. rate beginning at bud break. Apply 3 times on 14-day intervals. For walnuts, apply 8.5 fl. oz. at 14 to 21-day intervals. For ray blight, apply 12 fl. oz. at 7-day intervals or 20 fl. oz. at 14-day intervals.
- [D] Mix 16 fl. oz. of PROPICONAZOLE 14.3% T&O in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-28 days, beginning when conditions are favorable for disease development. For Douglas fir needle rust, apply once in May. For tip blight, initiate applications in mid-late winter, and apply 3 times at 2-month intervals.
- [E] Mix 20-24 fl. oz. of PROPICONAZOLE 14.3% T&O in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply during June to August time period.

NOTE: To avoid possible illegal residues, DO NOT apply to apple, cherry, citrus, nectarine, peach, pecan, plum or walnut trees that will bear harvestable fruit within 12 months.

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