



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

SEP 19 1997

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Kenneth W. Chisholm  
Registration Product Manager  
AgrEvo USA Company  
Little Falls Centre One  
2711 Centerville Road  
Wilmington, DE 19808

SUBJECT: Label Amendments to Add Fairy Ring Preventative Use Rate  
ProStar 50WP  
EPA Reg. No. 45639-153 ✓  
ProStar 70WP  
EPA Reg. No. 45639-208  
Your Letters Dated July 8, 1997

Dear Mr. Chisholm:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, are acceptable subject to the conditions below:

1. The NET CONTENTS statement is missing from the labels. This statement is required on all labels or on the container of the pesticide. The preferred location is the bottom of the front panel immediately above the company name and address, or at the end of the label text. Net contents must be expressed in conventional American units of fluid ounces, pints, quarts, gallons and pounds. The net contents must also be expressed in the largest suitable unit, e.g., "1 pound 10 ounces" rather than "26 ounces". In addition to American units, net contents may be expressed in metric units. [40 CFR 156.10(d)]
2. In the Tank-Mixes section, include the following or similar statements "Follow the label directions for the most restrictive of label limitations and precautions. This product cannot be mixed with any product containing a label prohibition against such mixing."

Please submit one copy each of your final printed labeling before you release the products for shipment. Stamped copies are enclosed for your records.

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If you have any questions, then please contact Terri Stowe of my staff at (703) 305-6117.

Sincerely,

*Theresa A. Stowe*

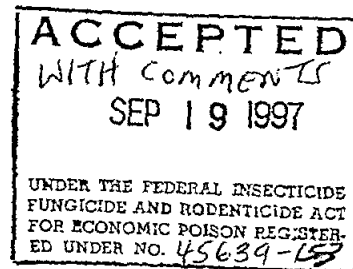
*for*

Mary L. Waller  
Acting Product Manager (21)  
Fungicide Branch  
Registration Division (7505C)

Enclosures



**ProStar 50WP**  
**FUNGICIDE**  
**In Water-Soluble Packaging**  
**For Use on Turf**



**ACTIVE INGREDIENT:**

N-[3-(1-methylethoxy) phenyl]-2-(trifluoromethyl)  
benzamide

50.3%

**INERT INGREDIENTS:**

49.7%

**TOTAL**

100.0%

Manufactured under license from Nihon Nohyaku Co., Ltd., Tokyo, Japan.

EPA Reg. No. 45639-153

U.S. Patent No. 4,093,743

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

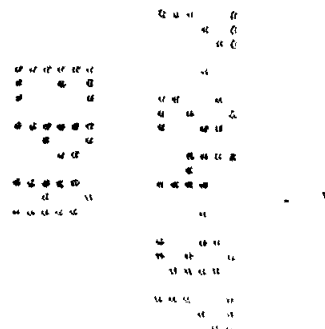
**STATEMENT OF PRACTICAL TREATMENT**

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN  
CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE  
OBTAINED BY CALLING 800-228-5635, EXT. 202.

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## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if absorbed through the skin. AVOID contact with eyes, skin or clothing.

### Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

## USER SAFETY RECOMMENDATIONS

Do not eat, drink, smoke, or chew gum or tobacco while handling this product and until hands and face are thoroughly washed with soap and water. Do not use the toilet before thoroughly washing hands.

If this product penetrated through your clothing or personal protective equipment, stop handling this product immediately, remove the clothing and equipment, wash your body thoroughly, and put on clean clothing and equipment before resuming the handling activity.

After handling this product, remove personal protective equipment immediately. Wash the outside of gloves before taking them off. Shower or wash thoroughly and change into clean clothing as soon as possible.

Discard clothing and personal protective equipment that cannot be reused, including clothing and other absorbent materials that have been drenched or thoroughly contaminated with this product's concentrate. Otherwise, wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturer's directions or, if no such directions, in detergent and hot water. Keep and wash them separately from other laundry.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. For terrestrial uses, do not apply to water, areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This labeling **MUST** be in possession of the user at the time of pesticide application.

Do not apply this product through any type of irrigation system.

## STORAGE AND DISPOSAL

**STORAGE:** Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** TRIPLE RINSE (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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## DIRECTIONS FOR USE

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

### 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.

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 in your State responsible for pesticide regulation.

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 12 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
- Gloves
- Shoes plus socks

### 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.

## GENERAL INFORMATION

PROSTAR® 50WP is a systemic fungicide recommended for control of diseases of turf caused by Basidiomycetes. This product should be used particularly for control of *Rhizoctonia* Brown Patch, and has excellent safety on Kentucky bluegrass, creeping bentgrass, perennial ryegrass, red fescue, tall fescue, bermuda grass, St. Augustine grass, and zoysia grass.

**APPLICATION AND DOSAGE:** Apply the recommended amount of PROSTAR 50WP in 2 to 5 gallons of water per 1,000 square feet, unless otherwise specified. Add appropriate amount of water to the spray tank, drop the water soluble bag into the tank, and allow the bag to dissolve for 5 minutes prior to agitation. The bag may float, but do not disturb it. Agitation may be started once the bag begins to disintegrate in the spray tank solution. If PROSTAR 50WP is to be tank mixed with an appropriately labeled fungicide or other product to control another pest, add PROSTAR first. After the PROSTAR bag is completely dissolved, add the mixture partner. Prior to spraying with a tank mixture not specified on this label, it is advisable to determine if the products are physically compatible. For best results, spray the treated area uniformly, using equipment such as flat fan nozzles. Use 50 mesh or larger screens. Avoid mowing for 24 hours after application and do not irrigate until spray has dried on grass, unless otherwise noted.

# DOSAGE TABLE\*

| Disease   | Rate of ProStar<br>50WP/1000 sq. ft. | Coverage per 1.5 lb<br>Water-soluble bag(sq.ft.) | Timing<br>(days)                 |
|---|--------------------------------------|--|----------------------------------|
| Brown Patch<br>(Preventative)                         | 2 oz.                                | 12,000   | 14 - 21                          |
|   | 3 oz.                                | 8,000  | 14 - 21                          |
| (Curative)  | 3 oz.                                | 8,000  | 14                               |
| Fairy Ring<br>(Preventative)                          | 3 oz.                                | 8,000  | 21 - 28                          |
| (Curative)  | 6 oz.                                | 4,000  | 30                               |
| Red Thread/Pink Patch<br>Yellow Patch/Southern Blight | 2 oz.                                | 12,000   | 21 - 28                          |
| Gray Snow Mold  | 4 oz.                                | 6,000  | Prior to permanent<br>snow cover |
|   | 5 oz.                                | 4,800  |                                  |
|   | 6 oz.                                | 4,000  |                                  |
| Large Brown Patch                                     | 3 oz.                                | 8,000  | 30                               |

\*See specific directions for each disease below.

## BROWN PATCH (*Rhizoctonia solani*):

**Preventative:** Apply 2.0 to 3.0 oz. of PROSTAR 50WP per 1,000 square feet in 2 to 5 gallons of water prior to initial signs of disease development. Repeat after a 14–21 day interval if conditions favor disease development.

**Curative:** Apply 3 oz. of PROSTAR 50WP per 1000 square feet in 2–5 gallons of water to turf with active brown patch. Make a second application 14–21 days later, if conditions favor disease development.

## Tank-Mixes:

- ⊕ PROSTAR 50WP does not control dollar spot. If Sclerotinia dollar spot and brown patch occur simultaneously, tank-mix PROSTAR 50WP at 2 oz. per 1000 square feet in 2–5 gallons of water with other registered fungicides, such as PCNB, Bayleton<sup>®</sup> 1, Banner<sup>®</sup> 2, Eagle<sup>®</sup> 3, or Sentinel<sup>®</sup> 2, to control both diseases. Repeat application 21–28 days later if needed.
- ⊕ PROSTAR 50WP does not control grey leaf spot, *Curvularia* leaf spot, or algae. In areas where these problems occur simultaneously with brown patch, tank-mix appropriate fungicides at recommended rates with PROSTAR 50WP.

Do not use water-soluble PVA packets in a tank mix with products that contain Boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic which is not soluble in water or solvents such as oils, kerosene, gasoline, or alcohol.

## FAIRY RING (including *Marasmius* spp., *Lepiota* spp., *Agaricus* spp., *Lycoperdon* spp.)

**Preventative:** PROSTAR 50WP, applied at 3 oz./1000 square feet in 3–5 gallons of water, immediately followed by irrigation with ½ to ¾ inch of water may suppress the development of fairy ring caused by various basidiomycete pathogens. A second application may be made at a 21 to 28 day interval using the same dosage rate.

**Curative:** PROSTAR 50WP, applied at 6 oz./1000 square feet in 10–50 gallons of water may suppress the expansion of fairy ring caused by various basidiomycete pathogens. Application should be made as a spot treatment to the affected area at the first sign of ring development (greening, death of turf, mushrooms). Symptom suppression may be temporary, and symptoms may re-occur. In these cases, a second application at 6 oz./1000 square feet is suggested, no less than 30 days after the first application. Do not treat more than 10,000 square feet per acre of turf area using this rate. Aeration prior to subsurface applications has been beneficial in some cases. Use of a non-ionic surfactant in combination with PROSTAR 50WP is recommended. Treated areas should be irrigated prior to and after application with sufficient water to maintain growth of turf. Disease control is improved if turf



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is maintained at optimum fertility levels after symptom development. Turf that has been damaged extensively by fairy ring development may have to be re-seeded.

**RED THREAD (*Laetisaria fuciformis*), PINK PATCH**

(*Limonomyces roseipellis*), **YELLOW PATCH (*Rhizoctonia cerealis*), and SOUTHERN BLIGHT (*Sclerotium rolfsii*):** Apply 2.0 oz. PROSTAR 50WP per 1,000 square feet in 2 to 5 gallons of water prior to or after initial signs of disease development and repeat after 21–28 days if needed.

**GRAY SNOW MOLD (*Typhula* spp.):** Apply 4–6 oz. of PROSTAR 50WP per 1,000 square feet of green or tee area in 2 to 5 gallons of water in the fall prior to permanent snow-cover. Use of a wetting agent has proven beneficial. If **Pink Snow Mold (*Microdochium*, formerly *Fusarium nivale*)** is also suspected, PROSTAR 50WP may be tank-mixed with products labeled for control of that disease, including PCNB, Bayleton<sup>®1</sup>, and Banner<sup>®2</sup>. Prior to application, both products should be mixed in small volumes to ascertain physical compatibility. **Do not treat more than 10,000 square feet per acre of turf area using this rate.**

**LARGE BROWN PATCH (*Rhizoctonia solani*) of ZOYSIA GRASS (formerly Zoysia Patch):** Apply ProStar 50WP in the fall or spring for control of large brown patch on zoysia grass. Disease control is more effective if made prior to or after initial symptom development. Apply 3 oz. of PROSTAR 50WP per 1000 square feet in 2–5 gallons of water and repeat 30 days later if symptoms persist. A non-ionic surfactant is recommended for best results. Fall applications may suppress disease development in the following spring.

### USE PRECAUTIONS

For use rates over 3 oz. per 1,000 square ft., do not apply within 100 ft. of any estuary or marine habitat or within 100 feet of any ditches, drainage tiles, or other waterways that drain directly into (within 1/2 mile) estuaries or marine habitats.

Apply no more than a combined total of 6 oz. per 1000 square feet as a broadcast application during a single growing season.



<sup>1</sup> Reg'd trademark of Bayer Corporation, <sup>2</sup> Reg'd trademark of Novartis

<sup>3</sup> Reg'd trademark of Rohm & Haas Company

### IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of AgrEvo USA Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AgrEvo USA Company disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

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