



100-773

01/21/2000

100-773

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

JAN 21 2000

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dr. Lee Hubbard
Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Dear Dr. Hubbard

Subject: PPZ 1.55% HG Fungicide
EPA Reg. Number 100-773
Your Submission dated Sept. 21, 1999

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable, provided you do the following:

On page 1, delete the unnecessary ninth bullet halfway down the page, before the phrase "Sprinklers after spray has dried."

On page 2, replace the phrase "CAS No. 60207-90-1" with "Propiconazole," or revise it to match the ingredient statement on page 13. If you want to include the CAS No. on the label it should appear as a substatement or footnote, refer to PR notice 97-5.

On page 13, move "Apr. 18, 1995- EPA Approved," to the following page.

A stamped copy of the label is enclosed for your records. If you have any questions, please contact Linda Kutney at (703)-305-7382.

Sincerely,

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

Enclosure

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FRONT PANEL OF BOOKLET

PPZ 1.55% HG

FUNGICIDE

Water Based

[OPTIONAL FRONT PANEL BULLET STATEMENTS]

- Broad spectrum and systemic disease control on roses, flowers, home lawns, trees, and shrubs
- Controls brown patch, powdery mildew, black spot, rust, blights, scab, and more
- Contains Banner® -
- Prevents and stops major diseases on roses, flowers, lawns, trees, and shrubs
- Concentrate - Just mix with water and spray
- For use in pressure type or hose-end sprayers
- Enough to treat a 1,333 sq. ft. lawn
- Absorbed into the plant - Can't be washed off by rain or sprinklers after spray has dried
- Not affected by rain after spray has dried
- Systemic disease control
- Systemic Action - Can't be washed off by rain after spray has dried
- Prevents a large variety of diseases on home lawns and ornamentals
- Prevents lawn diseases before they happen
- Broad spectrum disease control on home lawns and ornamentals
- Works up to 4 weeks for certain diseases
- Encourages Increased Turf Rooting
- Improves color in woody shrubs

KEEP OUT OF REACH OF CHILDREN.

WARNING

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

JAN 21 2000

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

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FRONT PANEL CONTINUED

See additional precautionary statements on back panel.

EPA Reg. No. 100-773

One Pint (16 fl. ozs.)
Net Contents

Prevents and stops . . .

- Black Spot
- Dollar Spot
- Rust
- Brown Patch
- Powdery Mildew
- Leaf Spot

. . . and more!

Active Ingredient: Propiconazole:

CAS No. 60207-90-1 1.55%

Inert Ingredients: 98.45%

Total: 100.00%

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DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire **Directions for Use and Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITIONS OF SALE AND WARRANTY

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Novartis and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Novartis.

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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.

STOP. READ ALL INSTRUCTIONS INSIDE BEFORE USE.

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

STOP. DO NOT ALLOW PEOPLE OR PETS TO CONTACT TREATED AREAS UNTIL SPRAY HAS DRIED.

1) WHAT IS THIS PRODUCT FOR?

This water-based systemic fungicide effectively prevents and stops major diseases on roses, flowers, lawns, trees and shrubs.

2) HOW DO YOU USE IT?

USE TIPS

- This product is highly effective when it is used to prevent diseases or applied at the first sign of disease. Consider treating early in the season. This product will not eliminate disease already present.
- When used as directed, this product is safe to plants and controls the diseases listed. Plants not listed may be injured by this product and diseases not listed may not be controlled.
- Do not apply this product to African violets, begonias, Boston ferns, or geraniums.
- If you need more information about lawn and ornamentals diseases, contact your local County Extension Service.

3) HOW TO MIX

Shake well before using. Apply only with a pump-up pressure sprayer, concentrate plus water-style, or a dial-style hose-end sprayer. Use of hose-end sprayers which have only an on/off switch or those which are continuously filled with water during the application is not recommended.

NOTE: 1/2 fl. oz. = 1 Tablespoon
1 fl. oz. = 2 Tablespoons

Food utensils, such as measuring cups and spoons, must not be used for food purposes after use in measuring pesticides.

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Pump-Up Sprayer

1. Fill with required amount of water.
2. Add the amount of concentrate specified in the charts that follow.
3. Shake well before application.

Concentrate Plus Water Style Sprayer

1. From the following chart, determine the amount of concentrate required.
2. Pour concentrate into sprayer jar to the required "fl. oz." level.
3. Then add the required amount of water to the "gals." level.
4. Replace sprayer top on jar and shake well before spraying.

Dial-Style Hose-End Sprayer

1. Set sprayer on the "fl. oz./gallon" level specified in the following chart.
2. Use only enough product for the area to be treated.
3. Close sprayer, attach to hose and apply product to lawn.

(For example: To treat a 1,000 sq. ft. lawn for powdery mildew, pour 12 fl. oz. into sprayer jar. Set sprayer dial at 3 fl. oz. per gallon.)

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4) HOW TO APPLY

ROSES AND FLOWERS

General Directions

- 1) Apply product to the point just when it begins to run off of the leaves.
- 2) Allow spray to completely dry before watering.

Plant	Disease	How Much to Apply	Comments
Roses	Powdery Mildew	1 Tablespoon (1/2 fl. oz.) per gal. of water	Thorough coverage needed for best results. Begin application at bud break. Treat every 10 days.
	Black Spot, Rust	2 Tablespoons (1 fl. oz.) per gal. of water	Treat every 10 days. <u>Note:</u> May not provide 100% control of black spot under severe conditions.
Calendula	Powdery Mildew	1 Tablespoon (1/2 fl. oz.) per gal. of water	Apply every 30 days.

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Plant	Disease	How Much to Apply	Comments
Chrysanthemums	Ray Blight	2 Tablespoons (1 fl. oz.) per gal. of water	Apply every 7 days.
Delphinium	Powdery Mildew	1 Tablespoon (1/2 fl. oz.) per gal. of water	Apply every 14 days.
Snapdragons	Rust	2 Tablespoons (1 fl. oz.) per gal. of water	Apply every 10 days.
Sweet William	Leafspot	1 Tablespoon (1/2 fl. oz.) per gal. of water	Apply every 14 days.

LAWNS

- 1) Apply after mowing or allow sprayed area to completely dry before mowing.
- 2) Measure the length and width of area to be treated before application. Length x width = square feet. For example, an area 25 ft. long and 20 ft. wide is 500 sq. ft.

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Established Lawns

Disease	How Much to Apply	Comments
Brown Patch	5 fl. oz. in 1 gal. of water per 250 sq. ft. of lawn	If needed, repeat treatment every 10 days. First application should be in May or June before disease is present.
Dollar Spot, Powdery Mildew, Rust, Anthracnose	3 fl. oz. in 1 gal. of water per 250 sq. ft. of lawn	Apply every 14 days.
Red Thread, Dichondra Rust on Dichondra Lawns	5 fl. oz. in 1 gal. of water per 250 sq. ft. of lawn	If needed, repeat every 21 days when conditions are favorable for disease to occur.
Stripe Smut	3 fl. oz. in 1 gal. of water per 250 sq. ft. of lawn	Apply in Fall after grass is dormant or in early Spring before grass starts to grow.

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New Seedlings

How Much to Apply	Comments
5 fl. oz. in 2 gals. of water per 500 sq. ft. of lawn	Apply at the 2 to 3-leaf stage of growth for faster root development and top growth.

TREES AND SHRUBS

General Directions

1) Spray just until product runs off leaves. 2) Allow the spray to dry before watering plants.

Plant	Disease	How Much to Apply	Comments
Crab Apple	Scab, Rust	1/2 Tablespoon (1/4 fl. oz.) per gal. of water	Apply when buds just begin to break open. For scab, apply every 14 days. For rust, make 3 applications, beginning when buds just begin to break open. Apply at 7-day intervals.
	Powdery Mildew	1 1/2 Tablespoons (3/4 fl. oz.) per gal. of water	Apply every 14 days.
Note: Do not use fruit from treated crab apples for food purposes.			
Crape Myrtle	Powdery Mildew	3 Tablespoons (1 1/2 fl. oz.) per gal. of water	Apply every 21 days.

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Plant	Disease	How Much to Apply	Comments
Dogwood	Anthrachnose	1 Tablespoon (1/2 fl. oz.) per gal. of water	Apply every 14-28 days.
Douglas Fir, Shasta Fir	Needle Rust	3 Tablespoons (1 1/2 fl. oz.) per gal. of water	For Douglas Fir, apply every 21 days. For Shasta Fir, apply in May - June before disease occurs.
Jeffrey Pine	Tip Blight	3 Tablespoons (1 1/2 fl. oz.) per gal. of water	Make the first application in mid-late winter (Nov. - Jan). Apply every 2 months up to 3 times.
Oak, Red Tip Photinia	Leaf Spot	3 Tablespoons (1 1/2 fl. oz.) per gal. of water	Apply every 14 days.

NON-BEARING FRUIT AND NUT TREES

General Directions

- 1) Non-bearing fruit and nut trees are those trees that will not produce fruit for at least one year after application of this product.
- 2) Apply product to the point just when it begins to run off of the leaves.

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Plant	Disease	How Much to Apply	Comments
Apple	Scab	1/2 Tablespoon (1/4 fl. oz.) per gal. of water	Start applications when leaves start growing in the Spring and spray every 14 days.
	Rust	1/2 Tablespoon (1/4 fl. oz.) per gal. of water	Make 3 applications beginning when buds just begin to break open. Apply at 7-day intervals.
	Powdery Mildew	1 Tablespoon (1/2 fl. oz.) per gal. of water	Start applications in early Spring and spray every 14 days.
Cherry	Powdery Mildew, Leaf Spot,	1 Tablespoon (1/2 fl. oz.) per gal. of water	Start applications in early Spring and spray every 21 days.
Citrus	Greasy Spot	4 Tablespoons (2 fl. oz.) per gal. of water	Apply June-August every 21 days.

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Plant	Disease	How Much to Apply	Comments
Pecan	Scab, Powdery Mildew, Downy Spot, Zonate Leafspot, Fungal Leaf Scorch, Brown Spot	2 Tablespoons (1 fl. oz.) per gal. of water	Start applications at bud break and make 3 applications at 14-day intervals.
Walnut	Anthracnose	2 Tablespoons (1 fl. oz.) per gal. of water	Apply every 14 days.

Storage and Disposal

Storage

Store in a cool, dry place, away from heat or open flame.

Disposal

Do not reuse container. Securely wrap container in several layers of newspaper and discard in trash.

For minor spills, follow all precautions on this label and clean up immediately. In the event of an emergency, call 1-800-888-8372, day or night.

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U.S. Patent No. 4,079,062

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Novartis Crop Protection, Inc.
Turf and Ornamental Products
Greensboro, NC 27419

NCP 773A-L1 C0999

Sept. 21, 1999

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CONTAINER LABEL WITH PREVIOUS TEXT IN ATTACHED RESEALABLE BOOKLET.

PPZ 1.55% HG
FUNGICIDE

Water Based

Active Ingredient: Propiconazole: CAS No. 60207-90-1	1.55%
Inert Ingredients:	98.45%
Total:	100.00%

EPA Reg. No. 100-773

One Pint (16 fl. ozs.)
Net Contents

KEEP OUT OF REACH OF CHILDREN
Precautionary Statements
Hazards to Humans and Domestic Animals

WARNING

Causes substantial, but temporary eye injury. Do not get in eyes. Wear goggles or safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Do not allow people or pets to contact treated areas until spray is dry.

First Aid

- If in eyes:** Hold eyelids open and flush eyes with a steady, gentle stream of water. Get medical attention.
- If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
- If inhaled:** Move victim to fresh air.
- If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. **Questions or Comments?** Call [telephone number].

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U.S. Patent No. 4,079,062
NCP 773A-L1 C0999
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Novartis Crop Protection, Inc.
Turf and Ornamental Products
Greensboro, NC 27419

This booklet manufactured using post-consumer, recycled paper.

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- May 5, 1995 - deleted mold from front panel and specified treatment every 10 days for brown patch per EPA's Apr. 18 approval
- November 8, 1995 - Removed rose prohibition, moved ingredient statement to back of label, combined several DFUs for same use/pest, changed "Statement of Practical Treatment" to "First Aid," added "Questions or Comments? Call _____"
- June 9, 1997 Changed refs. from Ciba to Novartis
- May 17, 1999 added front panel claim for increased turf root growth claim and improvement of color in woody shrubs; other editorial changes
- Sept. 21, 1999 Revised label per EPA approval of 9/17/99 with requirements to delete certain previously approved language and uses. See marked copy.