

PM-21 2217-426

June 1996



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

APR 21 1994

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OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SUBJECT: Label Amendment Submission of 10/30/93 in Response to PR Notice 93-7  
EPA Reg. No. 2217-426  
FORMEC 80 TURF & ORNAMENTAL FUNGICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully **REMOVES THE PRODUCT FROM THE SCOPE** of PR Notice 93-7 once the comments (if any) on the attached sheet are addressed. Other than the alterations (if any) listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard.

Since your amendment proposes to delete uses directly and/or to delete uses implicitly through the use of exclusionary statements, the Agency will publish in the Federal Register a notice of receipt of your amendment to delete uses, as required by section 6(f)(1) of FIFRA. The Agency will defer action for 90 days from the date of the Federal Register notice to give affected minor users an opportunity to try to persuade you to retain the uses(s). When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted." Your stamped-accepted labeling will then be sent to you.

As described in Supplement A of PR Notice 93-11 (self-verification option), you may sell and distribute product bearing the submitted labeling before you receive a copy of your stamped-accepted labeling. Note that your registration is not amended until the comment period required by section 6(f)(1) of FIFRA has expired and the Agency has approved the amendment. Therefore, you may withdraw your proposed amendment at any time during the comment period and until you receive your stamped-accepted labeling.

Sincerely,

James Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)



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contains at least 50% recycled fiber

1996

# FORMEC 80

## TURF & ORNAMENTAL FUNGICIDE

CONTAINS FORE®

### ACTIVE INGREDIENTS:

A co-ordination product of zinc ion and manganese ethylene bisdithiocarbamate... 80%

In which the ingredients are

Manganese++..... 16%

Zinc++..... 2%

Ethylene bisdithiocarbamate ion (C<sub>4</sub>H<sub>6</sub>N<sub>2</sub>S<sub>4</sub>)=..... 62%

INERT INGREDIENTS..... 20%

TOTAL 100%

US PATENTS 3,379,610 and 2,974,156.

FORE® is a registered trademark of ROHM & HAAS COMPANY.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### PRECAUTIONARY STATEMENTS

##### -HAZARDS TO HUMANS & DOMESTIC ANIMALS -

**CAUTION:** May cause irritation of nose, throat, eyes, and skin. Do not breathe dust or spray mist. In case of skin contact, wash with water; for eyes; wash copiously with water and get medical attention. Wear protective clothing as described on this label. Wash thoroughly after each use and launder clothing before reuse.

##### -ENVIRONMENTAL HAZARDS-

This product is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. For terrestrial uses, 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 washwaters.

##### -PHYSICAL OR CHEMICAL HAZARDS-

Keep away from fire and sparks.

NET WEIGHT \_\_\_\_\_ POUNDS

645/WPS AP  
EPA REG NO 2217-426  
EPA EST NO.2217-KS-1  
Mfd. by PBI/GORDON CORPORATION  
KANSAS CITY, MISSOURI 64101

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

APR 21 1994

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

2217-426

## DIRECTIONS FOR USE

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

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

## RE-ENTRY INTERVAL AND PROTECTIVE CLOTHING

Do not enter or allow entry into treated area until 24 hours after application unless wearing the personal protective equipment listed on this label.

All agricultural workers/handlers (i.e. mixers, loaders, and applicators) applying EBDCs must wear coveralls over long-sleeved shirt and long pants, shoes, socks, and chemical resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn. For agricultural workers, where completely enclosed cabs with positive pressure filtration or an enclosed cockpit for aerial application are used, a long-sleeved shirt and long pants may be worn in place of the protective clothing described above. Chemical-resistant gloves must be available in the cab or cockpit and worn upon exiting. The gloves must be kept in an enclosed container in the cab or cockpit to prevent contamination of the inside of the cab or cockpit. During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

## STORAGE & DISPOSAL

**STORAGE:** Store in original container in a locked storage area inaccessible to children and pets. Do not store with or near feed or foodstuffs. Storage area must be dry and cool. Do not allow product to become wet or overheated in storage as such may bring about chemical changes which will impair the effectiveness of the product and may also generate flammable vapors. Keep bag tightly closed by rolling down top of bag to product level and taping or clipping.

**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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## GENERAL INFORMATION

FORMEC 80 provides proven control of most common turf grass diseases and is also effective in controlling major fungal diseases of ornamentals. Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can generally be accomplished with lower rates and less frequent fungicide applications. Once diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective spray program for maximum performance of FORMEC 80.

Where diseases are expected to occur each year, a preventive spray program should be used. Diseases begin to develop when weather conditions become ideal for growth of the organism. This usually occurs in the spring and again in early fall. Therefore, make 3 to 5 applications of FORMEC 80 at 7 to 14 day intervals beginning in April or May and again in the early fall beginning when cool nights return in September. Repeat applications more frequently during periods of high humidity.

If preventive sprays are not used and disease develops, spray 3 or more times with FORMEC 80 at 3 to 5 day intervals. Keep turf mowed to 1 1/2 to 2 inches in height and do not water. In areas where Fusarium snow mold occurs, apply FORMEC 80 during the winter at monthly intervals, and especially after snow has melted. Pay particular attention to spraying in areas where snow melts slowly - such as in shaded areas under trees and near buildings. Follow local turf disease control recommendations for details on timing of applications.

Diseases on ornamentals generally occur under the same conditions favorable to turf diseases. Preventive sprays used during warm humid periods will reduce the risk of diseases. If preventive sprays are not used and disease does develop, three or more applications of FORMEC 80 should be made at 3 to 5 day intervals to arrest the disease and protect new growth.

### INSTRUCTIONS

If this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season.

### TURF

**- NOT INTENDED FOR USE BY HOMEOWNERS -**

FORMEC 80 can be used for the control of these diseases of cool and warm season turfgrasses.

Diseases: Fusarium blight, Red thread, Copper spot, Slime molds, Helminthosporium melting-out, Rhizoctonia brown patch, Rust, Pythium blight, Algae, Dollar spot, and Fusarium snow mold.

Spray Volumes: Use sufficient water to provide thorough coverage. Generally, 3 to 5 gallons of spray mixture per 1000 square feet or 130 to 220 gallons of spray mixture per acre will provide adequate coverage.

Application Rates: For large scale preventive program, apply 4 ounces of Formec 80 per 1000 square feet or 10.9 pounds of Formec 80 per acre at 7 to 14 day intervals. When conditions are especially favorable for disease development, apply a maximum use rate of 6 ounces of Formec 80 per 1000 square feet or 16.3 pounds of Formec per acre with a 7 day interval.

For small areas with knapsack sprayers, backpack sprayers, cart sprayers, pressure sprayers, or other manually operated sprayers, refer to the spray preparation chart shown below. As a preventive treatment, mix 15 tablespoons (1 cup) with 3 gallons of water and apply this mixture to 1000 square feet of turf. As a control treatment, mix 22 1/2 tablespoons (1 1/2 cups) of product with 3 gallons of water and apply this mixture to 1000 square feet.

A. Preventive Treatment		Water Volume	Area to Treat
Amount of FORMEC 80			
Tablespoons	Cups	Gallons	Square Feet
5	1/3	1	333
15	1	3	1,000

B. Control Treatment		Water Volume	Area to Treat
Amount of FORMEC 80			
Tablespoons	Cups	Gallons	Square Feet
7 1/2	1/2	1	333
22 1/2	1 1/2	3	1,000

Use standard measuring spoons and cup. All volumes are level measure.

**TURF (Continued)**

**Application Schedules and Intervals:** Begin when disease threatens. Make 3 to 5 applications of FORMEC 80 at 7 to 14 day intervals beginning in April or May and again in the early fall beginning when cool nights return in September. Repeat applications more frequently during periods of high humidity.

If preventive sprays are not used and disease develops, spray 3 or more times with FORMEC 80 at 3 to 5 day intervals. Keep turf mowed to 1 1/2 to 2 inches in height and do not water.

In areas where Fusarium snow mold occurs, apply FORMEC 80 during the winter at monthly intervals, and especially after snow has melted. Pay particular attention to spraying in areas where snow melts slowly - such as in shaded areas under trees and near buildings. Follow local turf disease control recommendations for details on timing of applications.

**Use Restriction:** Do not graze treated areas. Do not feed clippings to livestock.

**FLOWERS AND ORNAMENTALS**

**- NOT INTENDED FOR USE BY HOMEOWNERS -**

FORMEC 80 may be applied to the following ornamentals to control the diseases listed below:

Ornamentals	Diseases Controlled
Carnation	Leaf Spot
Dahlia	Botrytis blight
Lilly	Botrytis blight
Holly	Purple spot
Iris	Leaf spot
Rose	Black spot
Chrysanthemum	Botrytis petal spot
Gladiolus	Curvularia and Botrytis blossom blight

**Spray Volumes:** Apply as a full coverage spray.

**Application Rates:** For large scale operations with conventional equipment, apply 1 1/2 pounds of FORMEC 80 per 100 gallons of spray at 7 to 10 day intervals throughout the season for preventive treatment. For control treatments only, apply 2.0 pounds of Formec per 100 gallons of spray with three applications at 3 to 5 day intervals. Spray all foliage and flowers (except reduce dosage by one half to spray gladiolus flower spikes) until spray begins to drip off the leaves.

For small areas with knapsack sprayers, backpack sprayers, cart sprayers, pressure sprayers, or other manually operated sprayers, refer to the spray preparation chart below. As a preventive treatment, mix 1 1/2 tablespoons of FORMEC 80 with 1 gallon of water. As a control treatment, mix 2 tablespoons of FORMEC 80 with 1 gallon of water.

One pound of FORMEC 80 per 100 gallons of water per acre is equivalent to one level tablespoon per gallon of spray solution.

A. Preventive Treatment		Water Volume	Remarks
Amount of FORMEC 80	Tablespoons		
		Gallons	
	1 1/2	1	Spray all foliage and flower (except Gladiolus) until sprays begins to drip off leaves.
	3	2	
	4 1/2	3	
	6	4	
B. Control Treatment		Water Volume	Remarks
Amount of FORMEC 80	Tablespoons		
		Gallons	
	2	1	Spray all foliage and flower (except Gladiolus) until sprays begins to drip off leaves.
	4	2	
	6	3	
	8	4	

Reduce dosage by one half to spray gladiolus flower spikes.  
 Use standard measuring spoons and cup. All volumes are level measure.

**LIMITED WARRANTY AND DISCLAIMER.**

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.