

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Dr. Janet Ollinger  
Rohm and Haas Company  
Independence Mall West  
Philadelphia, PA 19105

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Dear Dr. Ollinger:

Subject: Amended Labeling in Response to the EBDC PD-4  
Fore DF Turf and Ornamental Fungicide/Dithane Turf and  
Ornamental Fungicide  
EPA Reg. No. 707-180  
Your Submission Dated March 31, 1992

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. For the Dithane T/O label, use of the product on sod farms is considered to be an agricultural use requiring a 24-hour reentry interval. Revise the reentry statement to read: "For ornamental uses and sod farms" and "For other turf uses".

b. On page 4 under spray volume, delete "orchards and vineyards". Under "Flagging" revise the first sentence to "...by a flagman in a totally enclosed vehicle."

c. For the Fore DF T/O label, revise the reentry statement as previously stated for Dithane T/O.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Susan T. Lewis  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

CONCURRENCES

SYMBOL	Enclosure						
SURNAME							
DATE							

2910 1

# FORE® DF

## AGRICULTURAL FUNGICIDE



### ACTIVE INGREDIENTS

#### MANCOZEB

A coordination product of zinc ion and manganese ethylene bisdithiocarbamate.....

In which the ingredients are:

Manganese <sup>++</sup> .....	15.00%
Zinc <sup>++</sup> .....	1.87%
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) <sup>-</sup> .....	58.13%

INERT INGREDIENTS.....

TOTAL

75% ACCEPTED  
With COMMENTS  
in EPA 1-11-72 dated:

JUN 15 1972

Under Fungicide, registered

25%  
100%

707-180

EPA REG NO. 707-180

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause irritation of nose, throat, eyes and skin. Do not breathe dust or spray mist.

PROTECTIVE CLOTHING AND EQUIPMENT: All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying EBDC's 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. Refer to Re-entry and Worker Protection Statements for additional Worker Safety rules.

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Dilute by giving 2 glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

IF INHALED: Move subject to fresh air.

IF IN EYES: Flush eyes with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

IF ON SKIN: Wash affected skin areas with soap and water.

**BEST AVAILABLE COPY**

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 or disposing of wastes.

**CONDITIONS OF SALE AND WARRANTY**  
 Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

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

**RE-ENTRY AND WORKER PROTECTION STATEMENTS**

**WORKER SAFETY RULES**  
 Keep all unprotected persons, children, livestock and pets away from treated area or where there is a danger of drift. Do not rub eyes or mouth with hands. See Statements of Practical Treatment.  
**PERSONAL PROTECTIVE EQUIPMENT-** For Mixers, Loaders, Applicators and Early Re-entry Workers.  
**HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE, CLOTHING AND EQUIPMENT:** All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying EBDC's 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.

**IMPORTANT!** Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and water before using the toilet.  
 After work take off all clothes and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with FORE DF must be destroyed according to state and local regulations.

**HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**  
 During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

**RE-ENTRY STATEMENTS**  
 Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information:

**CAUTION**

**AREA TREATED WITH FORE DF FUNGICIDE on (date of application).**  
**FOR ORNAMENTAL USES**  
 After sprays have dried, do not enter or allow entry into treated areas until the 24 hour re-entry interval has expired unless wearing the personal protective equipment listed on this label.  
**FOR TURF USES**  
 Do not enter treated areas without protective clothing until sprays have dried.

**CHEMIGATION****DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM****GENERAL USE INFORMATION**

FORE DF is a broad-spectrum protectant fungicide recommended for outdoor or greenhouse grown crops. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program. The addition of an agricultural surfactant will improve fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and improved fungicide retention during periods of wet weather.

**USE RATE DETERMINATION**

Carefully read, understand, and follow label use rates and restrictions.

Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions. For proper application to turf, determine the square footage to be treated, divide the footage by 1000 and multiply by the recommended fungicide use rate per 1000 sq. ft., and then determine the amount of water required to provide adequate coverage. When treating ornamentals, determine the recommended fungicide use rate and the spray gallonage required to provide a thorough coverage. Prepare only the amount of spray solution required to treat the desired area.

**MIXING**

Slowly place into spray tank as it is being filled or thoroughly premix before adding to the spray tank. Add other co-applied fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after FORE DF fungicide has been placed into suspension.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume.

**COMPATIBILITY**

FORE DF fungicide is compatible with most commonly used agricultural fungicides, insecticides and growth regulators. When preparing tank mixes, user should consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use.

**APPLICATION**

**Ground Application**-Thorough coverage foliar sprays generally result in optimum disease control. Best disease control in turfgrasses is achieved when 2 to 3 gallons spray is applied per 1000 square feet. To achieve good coverage use proper spray pressure, gallonage per acre, nozzles (generally hollow cone), disc (generally D-5 to D-7), nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

**Hand Sprayers**-Thoroughly spray plant foliage until runoff. When FORE DF fungicide is applied by a hand sprayer, 1 pound FORE DF fungicide per 100 gallons is equivalent to 1 level tablespoon per gallon spray solution.

**SPRAY ADJUVANTS**

The addition of a surfactant to FORE DF fungicide sprays will improve initial spray deposits, fungicide redistribution, and weatherability on ornamental plants.

Place FORE DF fungicide into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

**DISEASE SCOUTING**

FORE DF fungicide is a broad-spectrum protectant fungicide. If not applied on a routine protectant spray schedule, turf and ornamental plants should be frequently observed for disease signs or symptoms. Fungicide application should be made at the recommended label use rate and spray schedule, when disease is first observed, reported in local area, or during environmental conditions favorable for disease development.

**RESTRICTIONS**

Users should carefully read, understand, and follow all use restrictions prior to using FORE DF fungicide. 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**- For golf courses, sod farms, industrial or municipal turf areas and professional applications to residential lawns.

Start application when grass greens-up in spring or when disease first appears and repeat at 7 to 14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 7 day spray schedule. Apply in sufficient water to provide adequate coverage.

CROP	DISEASES CONTROLLED	RATE OF FORT DF PER APPLICATION OZ./1000 SQ.FT.	REMARKS (Also refer to Directions For Use)	RESTRICTIONS
Assorted grasses	Helminthosporium melting-out Rust(leaf, stem, stripe)	4		Do not graze treated areas.  Do not use on grasses intended for grazing, such as range or pasture grasses. Do not feed clippings to livestock  Do not use on grasses grown for seed.
	Copper spot Fusarium blight Powdery mildew Red thread Slime mold	4 to 8		
	Algae	6		
	Dollar spot	6 to 8		
	Rhizoctonia brown patch	4	Apply on a 7 day spray schedule.	
	Pythium blight	8	Begin applications at first sign of disease and repeat applications at 5 day intervals, or more frequently, if conditions are especially favorable for disease development	
	Fusarium snow mold	6 to 8	Apply at 2 to 6 week intervals during winter.	

**ORNAMENTALS-** Not Intended for use on fruit trees by homeowners. Neither the manufacturer nor the seller has determined the effects of using FORE DF fungicide on ornamentals not specified on this label. Prior to any large-scale applications to plants not specified on this label, the user should determine the effects of FORE DF fungicide by testing a small section of the type of plants treated. User assumes all risk arising out of application to unlabeled plants. The Conditions of Sale and Warranty apply to all uses.

For outdoor or greenhouse use, apply the equivalent of 1.5 lbs. FORE DF fungicide per 100 gals. dilute spray. The addition of LATRON B-1956™ or a similar non-ionic spray adjuvant to spray solutions will improve performance. Begin spraying when plants are well leafed out or at first sign of disease, in a full coverage spray at 7 to 10 day intervals throughout season or follow State Extension Service recommendations for disease control on the following ornamental plants.

CROP	DISEASES CONTROLLED	REMARKS(Also refer to Directions for Use)	RESTRICTIONS	
African violet	Botrytis blight		Do not use for food or feed purposes. (applies to all Ornamentals)	
Anthurium	Anthracnose, spadix rot			
Arborvitae	Cercospora blight			
Ash, mountain	Entomosporium leaf spot Guignardia leaf blotch			
Ash, white	Anthracnose Cylindrosporium leaf spot			
Aster, perennial	Puccinia rusts			
Aucuba, japonica	Alternaria leaf spot Anthracnose			
Azalea	Cylindrocladium rot Petal blight Phytophthora twig and bud blight	Apply in a full coverage spray, 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.		
Begonia	Botrytis blight			
Buffaloberry	Cylindrosporium leaf spot			Do not use fruit for food or feed purposes.
Camellias	Petal blight	Refer to Azalea.		
Carnation	Rust Septoria leaf spot			
Cedar, red (Juniper)	Cercospora blight Phomopsis blight			
Chrysanthemum	Ascochyta blight Botrytis petal spot Rust	Apply twice weekly during blooming period.		
Conifers	Lophodermium needle cast Pine gall rust Scirrhia brown spot	Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two week intervals as long as needed.		
Cordyline	Cercospora leaf spot			
Crabapple (Ornamental)	Cedar-apple rust Scab Sphaeropsis leaf spot			

## ORNAMENTALS -cont'd-

CROP	DISEASES CONTROLLED	REMARKS (Also Refer to Directions For Use)	RESTRICTIONS
Cypress, Arizona (Cupressus sp.)	Cercospora blight Monochaetia canker		
Dahlia	Botrytis blight		
Dieffenbachia	Leptosphaeria brown spot		
Dogwood, flowering	Anthrachnose Elsinoe leaf spot Septoria leaf spot	Apply when buds begin to open, when bracts have fallen, 4 weeks later and again in late summer after flower buds for next season have formed.	
Dracaena	Fusarium leaf spot		
Elm	Black leaf spot		
Euonymus	Anthrachnose		
Fatsia	Anthrachnose		
Fern	Rhizoctonia blight		
Ficus	Cercospora leaf spot		
Firethorn (pyracantha)	Fusicladium scab		
Fir, Douglas	Swiss needle cast		
Fuchsia	Botrytis blight Rust		
Geranium	Rust		
Gladiolus	Botrytis blossom blight Curvularia leaf spot	Make regular weekly applications starting before diseases appear and inc. ease to 2 or 3 applications per week during periods of heavy disease and during rainy weather. On flower spikes, reduce spray concentration to 3/4 lb. per 100 gals.	
Hawthorn	Cedar-apple rust Fabraea leaf spot Frogeye leaf spot Hawthorn rust Scab		
Holly	Purple spot		
Hollyhock	Anthrachnose Cercospora leaf spot Puccinia rust		
Honeysuckle	Herpobasidium blight		
Horsechestnut, Buckeye	Alternaria leaf spot Guignardia leaf blotch		
Hydrangea	Botrytis blight Cercospora leaf spot		
Iris	Didymellina leaf spot Mystrosporium ink spot		
Juniper	Phomopsis blight		
Laurel, mountain	Cercospora leaf spot Petal blight	Refer to Azalea.	

**ORNAMENTALS -cont'd-**

<b>CROP</b>	<b>DISEASES CONTROLLED</b>	<b>REMARKS(Also refer to Directions For Use)</b>	<b>RESTRICTIONS</b>
Ligustrum	Cercospora leaf spot		
Lily	Botrytis blight		
Magnolia	Gloeosporium leaf spot		
Maple	Alternaria leaf spot Phyllosticta leaf spot		Do not use on Sugar maples intended for the production of maple syrup.
Marigold	Botrytis blossom blight	Do not use on French dwarf double or Signet type marigold seedlings.	
Narcissus	Botrytis blight (fire) Smoulder		
Oak	Actinopelte leaf spot Taphrina leaf blister		
Orchid (Dendrobium)	Botrytis blossom blight		
Pachysandra	Volutella blight	Use a drenching spray of 2 lbs. per 50 gallons of water per 5,000 sq. ft. of bed. Start applications at first sign of disease and apply at least 5 applications at 10 to 14 day intervals.	
Pansy	Anthracoese		
Peony	Botrytis blossom blight Phytophthora blight	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.	
Peperomia	Cercospora leaf spot		
Philodendron	Dactylaria leaf spot Phytophthora leaf spot		
Photinia	Entomosporium leaf spot		
Pleomele	Fusarium leaf spot		
Poinsettia	Sphaceloma scab		
Rhododendron	Cercospora leaf spot Discosia leaf spot Petal blight	Refer to Azalea.	
Rose	Black spot Cercospora leaf spot Rust		
Schefflera	Alternaria blight		
Skunkbush, sumac	Cylindrosporium leaf spot		
Snapdragon	Rust		
Statice	Cercospora frog-eye		
Syngonium	Cephalosporium leaf spot		

**ORNAMENTALS - cont.-**

CROP	DISEASES CONTROLLED	REMARKS (Also refer to Directions For Use)	RESTRICTIONS
Tulip	Botrytis blight (fire)		
Venus, fly:rap	Anthracnose		
Viburnum	Downy mildew Ramularia leaf spot		
Walnut	Anthracnose		Do not use treated walnuts for food or feed purposes.
Zinnia	Alternaria leaf blight		

**STORAGE AND DISPOSAL**

**STORAGE:** Keep away from fire and sparks. Store in a cool, dry, well-ventilated area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep container closed when not in use.

Pallets of containers should not be stacked more than three high. Provide access aisle for each two rows. Decomposition produces a foul odor; if observed, check for hot containers and immediately remove to open areas for disposal

**PESTICIDE 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 in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Sweep or shovel into containers for disposal or reworking. Keep dusting to a minimum. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Refer to Precautionary Statements.

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