



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 2 4 1994

Gary R. Sandberg ELF ATOCHEM NORTH AMERICA INC AGRICHEMICALS DIV. 2000 MARKET ST. - 21ST FLOOR PHILADELPHIA, PA 19103 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 08/31/93 in Response to PR Notice 93-7

EPA Reg. No. 4581-370

PENNCOZEB 75DF FUNGICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely

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

Attachment

atochem

PROPOSED LABEL

Under the Federal Dethicide, Fundicide, and Rodenticide Act as amended, for the postetion registered under EPA Rag. No.

PENNCOZEB® DF

75% Dry Flowable Fungicide

For Turf and Ornamentals

A Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese	
ethylenebisdithiocarbamate	75.0%
Manganese + + 15.0%	
Zinc++ 1.9%	
Ethylenebisdithiocarbamate ion 58.1%	
$(C_4H_6N_2S_4)$	
INERT INGREDIENTS:	25%
TOTAL:	100%

BEST AVAILABLE COPY

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

Si usted no entiende la etiqueta, busque a <u>siguien</u> para que se la explique a usted en detaile (If you do not understand the label, find someone to explain it to you in detail).

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 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.

See Inside Panel for Additional Precautionary Statement.

EPA Registration No. 4581-370 EPA Establishment No. 33910-HL-01

NET CONTENTS 3 LBS./1.36 Kg

Sold by:

ELF ATOCHEM NORTH AMERICA, INC.—AGCHEM DIVISION Philadelphia, PA

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (AND DOMESTIC ANIMALS) CAUTION

Causes moderate eye injury. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment

APPLICATORS AND OTHER HANDLERS MUST

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear when mixing or loading
- Chemical-resistant apron when cleaning equipment, mixing or loading

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 STATEMENT When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural posticides (40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Human flaggers must be in enclosed cabs.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural posticides [40 CFR 170-240 (d) (4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Vser Safety Recommendations: Users should:

Wash hands before eating, drinking, chawing gum, using tobacco or using the toilet.

Remove clothing immediately if posticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product 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.

DIRECTIONS FOR USE It is a violation of Federal to use this product in a man inconsistent with its label:

Do not apply this product is way that will contact works: or other persons, either di or through drift. Only prohandlers may be in the area application. For any requir specific to your State or Troonsult the agency responsil pesticide regulation.

AGRICULTURAL USE REQUIREMENTS Use this product only in accord with its labeling and with the Worker Protection Standard, 40 part 170. This Standard contai requirements for the protection of agricultural workers on farm forests, surseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for train decontamination, notification, and emergency assistance. It a contains specific instructions exceptions pertaining to the st on this label about personal protective equipment (PPS), and The restricted-entry interval. 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 bours.

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 over long-sleeved shirt and long Waterproof gloves
- Shoes plus socks

BEST AVAILABLE CO

MOS-AGRICULTURAL USE REQUIREM The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Stand for agricultural pesticides (40 CFR Part 170). The MPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

GOLF COURSE AND HONEGARDEN USE: Do not enter or allow entry into treated areas until sprays have dried unless wearing the personal protective equipment listed on this label.

GENERAL INFORMATION

PENNCOZEB DF TURF AND ORNAMENTALS FUNGICIDE is a double containing a coordination product of zinc ion and manufices ethylenebisdithiocarbamate, and is recommended for use as a spray for the control of many important plant diseases. (When used according to directions, it provides very high fungicidal clivity and can be safety used on both turf grasses and certain ornamentals. PENNCOZEB OF provides control of most common turf grass diseases and it is also effective in controlling major fungus diseases of certain ornamentals).

Diseases of turi grass and ornamentals can attack suddenly and unexpectedly causing severe damage and loay even result in total loss of large areas of valuable turi 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 trequent fungicide applications. Once diseases have become estiblished, higher rates of fungicide and more frequent applications are required to bring them under control. Following regular protective program for maximum product performance.

CHEMICAL HAZARDS

Do not allow to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of the product as a fungicide and create vapors which may be flammable. Keep container closed when not in use.

INSTRUCTIONS FOR APPLICATION

To mix, slowly sift PENNCOZEB DF TURF AND ORNAMENTALS FUN-GICIDE into spray tank while it is being filled and the agitator is running. Add insecticide and nutritional sprays tast. PENNCOZEB DF TURF AND ORNAMENTALS FUNGICIDE is compatible with most commonly used pesticides. Read and observe the precautionary statements and other information appearing on product labels used in mixtures.

FOR AIR APPLICATION use at rate indicated in sufficient water for thorough coverage or a minimum of 2 gallions per acre.

Use a Spreader/Sticker at rate of 4 ft. oz. per 100 gallons spray if needed. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension.

When dosage ranges are given, use the higher rate and shorter intervals under severe disease pressure.

BEST AVAILABLE COPY

CROP	DISEASES	RATE OF PENNCOZEB DF PER APPLICATION OZ./1000 SQ. FT.	REMARKS
TURF COMMERCIAL USE ONLY NOT FOR HOMEGARDEN USE			Refer to General Use Instructions except when more specific directions are given for individual crops or diseases.
GENERAL USE INSTRUCTIONS—To be used on golf courses, sod farms and for professional applications to industrial, municipal and residential lawns. Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.			Start applications when grass greens up in the spring or when disease first appears and repeat at 7 to 14 day intervals or until disease threat is past. When conditions are especially tavorable for disease development, apply maximum fungicide use rate on a 7 day spray schedule.
			Apply in sufficient water for adequate coverage.
			Do not graze treated areas. Do not feed clippings to livestock.
	Copper Spot Red Thread Fusarium Blight (F. Roseum) Slime Molds Helminthosporium Melting Out	4-8	Apply on a 7 day schedule for Rhizoctonia.
	Rhizoctonia Brown Patch Rust Pythium Blight	8.	Apply at Salay intervals or more frequently if conditions
	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		are especially tavorable for disease development.
	Dollar Spot	6-8	A cadmium lungicide may be added to supplement Dollar spot control under severe disease conditions.
	Algae Eusarium Snow Mold	6-8	Apply at 2 week intervals during winter.
CAOP	DISEASES	REMARKS	

CAOP	DISEASES \	REMARKS
ORNAMENTALS & COMMERCIAL AND HOMEGARDEN USE		Refer to General Use Instructions except when more specific directions are given for individual crops or diseases.
GENERAL USE INSTRUCTIONS		Apply the equivalent of 1½ lbs. PENNCOZEB DF TURF AND ORNAMENTALS FUNGICIDE per 100 gallons of water (1½ level tablespoons per gallon) in full coverage spray. To improve performance, add 2 to 4 oz. spreader-sticker per 100 gallons of spray.
	,	Begin spraying when plants are well leafed out or at first sign of disease and apply at 7 to 10 day intervals throughout the season, or follow State Extension Service recommendations for disease control on the following ornamental plants:
Azaleas Petal Blight		Spray 2 to 3 times a week while flowers are opening. Direct spray into flowers and spray ground under bushes thoroughly.
Camelias	Petal Blight	Refer to azaleas.
Carnation	Leaf Spot	
Chrysanthemum	Botrytis Petal Spot	Apply at 1 to 2 lbs. per 100 gallons or 1½ level tablespoons per gallon in full coverage spray. Apply twice weekly during the blooming season.
Crabapple (ornamental)	Scab Cedar-Apple Rust	
Dahlia	Botrytis Blight	
Dogwood, Flowering	Anthracnose	Apply when buds begin to open, when bracts have fallen, 4 weeks later, and again in late summer after flower buds for next season are formed.
Gladiolus	Curvularia Leaf Spot Botrytis Blossom Blight	On flower spikes, use at ¾ lb. per 100 gallons. Make weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather.
Holly	Purple Spot	
Honeysuckle	Herpobasidium Blight	BEST AVAILABLE CO
Iris Leaf Spot		
Lify	Botrytis Blight	
Pachysandra Volutella Blight		Use a drenching spray of 2 lbs. per 50 gallons of water per 5,000 sq. ft. of bed area. Start application at first sign of disease and make at least 5 applications at 10 to 14 day intervals.
Pansy	Anthracnose	
Peony	Phythophthora Blight Botrytis Blight	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.
Rhododendron	Petal Blight	Refer to azalea.
Roses	Black Spot	
Snapdragon	Rest	
Tulip	Botrytis Blight (fire)	
Zinnia	Leaf Blight	

CHEMIGATION

NOT FOR THIS USE IN CALIFORNIA **GENERAL INSTRUCTIONS**

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll. traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need like

Do not connect chemigation system y public water system. Public water system water for human consumption if such system means a system for the provision of pihas at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year

SYSTEM REQUIREMENTS

Systems whizing a pressurized water and pesticide injection system must meet the follow-

The system must contain a functional check valve, vacuum reliel valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump

The pesticide injection pipeline must also contain a functional, normally closed, solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide mjection pump when the water pump motor stops

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above

Do not apply when wind speed favors drift beyond the area intended for treatment

Apply PENNCOZEB DF only through systems containing anti-syphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultane-

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when knes containing the product cannot be flushed and must be dismantled and drained. In a center pivol system, block the nozzle set nearest the well prvot injection unit to prevent spray being applied to this area

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water

PENNCOZEB OF may be applied in conjunction with chemically neutral liquid fertilizers Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be

Check local restrictions and requirements regarding sprinkler irrigation applications as Mey may vary from state to state

SPRAY PREPARATION:

Remove scale pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water

Prepare a suspension of PENNCOZEB DF in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation

Slowly add the required amount of PENNCOZEB DF and then the remaining volume of water

APPLICATION INSTRUCTIONS:

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of PENNCOZEB DF into the wrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB DF should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE. When treatment with PENNCOZEB DF has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE INSTRUCTIONS: Store in the original container in a dry area. If allowed to become wet the product will deteriorate and represent a fire hazard. Keep away from sources of ignition (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

PESTICIDE DISPOSAL INSTRUCTIONS: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

BEST AVAILABLE COPY

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably lit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHAN-TABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPE-CIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS. BUSINESS REPUTATION, OR CUSTOMERS, LABOR COST. OR OTHER EX-PENSES INCURRED IN PLANTING OR HARVESTING

Ell Atochem and 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 Eff Atochem.

Made in Holland

Printed in U.S.A.

5-N319S-01 J2 (19/92) (8/93)