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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

AUG 15 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

GARY R. SANDBERG ELF ATOCHEM NORTH AMERICA, INC. #3 PARKWAY, ROOM 619 PHILADELPHIA, PA. 19102

Subject:

Label Amendment Submission of 08/18/93 in Response to PR Notice 93-7

EPA Reg. No. 4581-370

PENNCOZEB DF 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. 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:

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.

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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.

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

Attachment

elf atochem



PROPOSED LABEL

ACCEPTED
with COMMENTS
by EPA Letter Dated

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Under the Federal Insecticide, Fundicide, and Redemicide Act no amended, for the posteride regime red years KPA Reg. No. 45% 1-370

PENNCOZEB° DF

75% Dry Flowable Fungicide

A Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese ethylenebisdithiocarbamate	75.0%
Manganese + +	
Zinc++	
Ethylenebisdithiocarbamate ion	
INERT INGREDIENTS	25.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

STATEMENT OF PRACTICAL TREATMENT

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 SKIP, 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 Statements

For Directions For Use and Chemigation Instructions see Following Pages.

EPA Registration No. 4581-370

EPA Establishment No. 33910-HL-01

NET CONTENTS 50 LBS./22.68 KG.

Sold by

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

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ECAUTIONARY STATEMENTS CARDS 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. -Wash thoroughly with soap and water after handling.

Personal Protective Equipment

APPLICATORS AND OTHER HANDLERS MUST EAR:

- 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.

INGINEERING CONTROL STATEMENT Then handlers use closed systems, inclosed cabs, or aircraft in a manner that meets the requirements isted in the Worker Protection Standard (WPS) for agricultural mesticides [40 CFR 170.240 (d) 4-6)], the handler PPE requirements may be reduced or modified as pecified in the WPS.

luman flaggers must be in enclosed cabs.

The enclosed cabs must be used in a manner that meets the requirements isted in the Worker Protection tandard (WPS) for agricultural esticides (40 CFR 170-240 (d) 4-6)]. The handler PPE requirements ay be reduced or modified as pecified in the WPS.

User fafety Recommendations: Users should:

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

Remove clothing immediately if pesticide 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 pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic c ganisms in neighboring areas. Do not apply directly to water, to a eas where surface water is present or to intertidal areas below the mean high water mark, except as specified for the labeled use on cranberries. Do not contaminate water when disposing of equipment washwaters

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

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 responsible for pesticide regulation.

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. 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 (YPE), 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 pants
- Waterproof gloves
- Shoes plus socks

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GENERAL INFORMATION

PENNCOZEB DF is a dry flowable fungicide containing a coordination product of zinc ion and manganese ethylenebisdithiocarbamate, and is recommended for use as a spray for the control of many important plant diseases

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

AIR APPLICATION use at the rate indicated in sufficient water for thorough coverage, a minimum of 2 gallons per acre for field crops and 10 gallons per acre for orchard crops

Use a Spreader Sticker at rate of 4 fl. 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.

Wher: dosage ranges are given, use the higher rate and shorter intervals under severe disease pressure, but do not exceed the maximum rate or apply more frequently than the minimum interval given in the directions for that crop.

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.

FIELD CROPS

4	CROPS	DISEASES	MATE LUSSIACRE	DIRECTIONS.
į	Figlid Corn and Corn Grown for Seed	Common Rust Helminttosporium 1 Leaf Blight	: 0-15	Start application at the easet of disches and repeat as needed. Do not apply more than 12 lbs acrive ingredient per season (16 lbs. product). Do not apply within 40 days of harvest-minuted.
	Cotton	Aust	15-20	Start applications at the onset of disease. Apply as needed. Do not apply more than 6.4 bs. active ingredient, per Season (8.5 lbs. product). Do not apply within 60 days of harvest (or after boil opening).
	Prints	Cercospora Leal Spot Rusi	7 0-2 0	Begin applications when disease first appears and repeat at 7- to 14-day intervals, using shorter interval during humid weather. Do not feed treated wines to livestock Do not use more than 12 8 lbs. active ingredient (17 lbs. aroduct) per acre per season. Do not apply within 14 days of harvest.
	Sugarbeets	Cercospora Leaf Spot Rust	1 5-2 0	Begin applications when disease first threatens and repeat at 7-10 day intervals. Do not apply more than 11-2 lbs: active ingredient (15 lbs: product) per acre per season. Do not apply within 14 days of harvest.
	Wheat Barley Cass Ryu	Heiminthosponium Leaf Spot Septona Leaf Spot Septona Glurne Blotch Leaf Rust Tan Spot	1 0-2 0	Start application at onset of disease or when plants are in tillering to jointing stage and repeat at 7- to 10-day wilervals. Do not make more than 3 applications in nie season. Do not apply more than 4.8 fbs. active ingredient (6.4 fbs. product) per acre per crop. Do not apply within 26 days of harvest. Do not graze livestock in treated areas prior to harvest. Do not apply after heading (around 10.5 Feekes).

VEGETABLE CROPS

cnors	DISEASES	HATE LBS/ACRE	DIRECTIONS
Asperagus	Rust Cercospora Leat Spot	2.0	Begin applications when rust first appears and repeat at 10 day intervals as needed. Use only on ferns after spears have been harvested. Do not apply more than 6.4 lbs active ingredient (8.5 lbs product) per acre per season. Do not apply within 180 days of harvest (in California and Arizona, the PHI is 120 days).
Sweet Corn Papeom Sweet Corn used for seed prad. (*ion	Cornmon Rust Hermithosporium Leal Blight	1 0-1 5	East of the Mississippl (including Arkansas & Louisiana) Apply in sufficient water for thorough coverage Start applications when disease first appears and repeat at 4-7 day intervals. Do not apply within 7 days of harvest. Do not feed treated forage (plant stalk and leaves) to investock. Do not apply more than 18 ibs. active ingredient (24 lbs. product) per acre per crop.
		10:5	West of the Mississippi (except A nansas & Louisana) Apply is sufficient water for thorough coverage Start adult cations when disease first appears and repeat 2. 4-7 day intervals. Do not apply within 7 days of harvest. Do not feed treated lorage (plant stalk and leaves) to livestock. Do not apply mine than 6.0 lbs. active ingredient (# fbs. product) per acre per crop.
Cocumpers	Afternar a (Macrosporium) Lest Scot Angelar Leat Spot Antiracnose Downstandew Pennium Faut Ret	1	Proj r when dispase threatens or plants begin to fun. Spray on a 7-10 day intaken flusing higher take at in r shorter intervals under severe disease pressure. Do not apply more than 19-2 lbs. acres ingradient (25-6 lbs. product) per acre passesson in not acoly within 5 days of harvest.

VEGETABLE CROPS continued

CROPS	DISEASE!	RATE LUS/ACRE	DIRECTIONS
Fennet 4	Early Chant Late 81901	1 ∰2 0	Apply when disease threatens, Make approachors as needed on a 7-10 day interval. Do not use more than 12 d ibs active ingredient per season (17 lbs. product). Do not apply within 14 days of harvest.
Melons including cantalcupes castbas crenshaws honeytlews watermelons	Afternaria Leaf Spot Anthracrose Cercospora Leaf Spot Downy Middew Gummy Stem Blight	2030	Apply as soon as plants begin to run or then disease threatens. Spray on a 7-10 day interval as necessary using higher rate and or shorter littervals under severe disease pressure. Do not apply more than 19-2 lbs. active ingredient (25-6 lbs. product) per acre per season. Do not apply within 5-days of harvest.
O sl ons (Ory Bulb)	Betrytis Leaf Blight Downy Mildew Neck Rot Purple Blotch	20.30	Begin applications when diseases are first reported in the area. Repeat at 7 day intervals throughout the season. Do not apply writing 7 days of harvest, do not apply to exposed butbs. Do not apply more than 24.0 lbs. active inpredient (32 lbs. product) per acre per crop.
(Furrow Orench)	Smut	30	Apply as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of "ter per acre. Do not use more than 2.4 lbs: acrive ingredient (3.2 lbs: product) per 29,000 linear feet of row (18 inch spacing). Do nor use in California.
Potatoes	Early Blight Late Blight	1 0-2 0	Begin applications when plants are 4-6 inches high, and repeat at 5-10 day intervals. (more frequently under severe disease conditions) throughout the season. Do not apply more than 11-2 lbs: active ingredient (15-0 lbs: product) per acre per crop. Do not apply within 14 days of harvest (except in Connecticut, Delaware, Florida, Maine, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania Rhode Island. Vermont, Wisconsin, when a 3-day. PHI is allowed). It is recommended that this product be used within an Integrated Pest. Management Program, Vine till should occur. 14 days before harvest.
Potato Tuber Treatment	Fusanum Seed Piece Decay		Dip whole or cut seed piece in mixture of 1% lbs of product per 50 gallons of water, drain and plant immediately. If seed pieces are to be field before planting, spread out to dry in a cool place. Do not use treated seed pieces for food or feed purposes.
Squash (Summer)	Anthracnose Downy Midew	2 0-3 0	Begin when plants start to run. Spray on a 7-10 day interval as needed using higher rate and/or shorter intervals under severe disease pressure. Do not apply more than 19 2 lbs. active ingredient (25 6 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Tomatoes	Anthracnose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septona Leaf Spot	1 5-3 0	East of the Mississippi Begin applications when seedlings emerge or transplants are set and repeat at 7-10 day intervals throughout the season. On not apply within 5 days of harvest. On not apply more than 16 8 lbs active ingredient (22 4 lbs. product) per acre per crop.
1		1 5-2 0	West of the Mississippi Apply on a 7-10 day interval as needed. Do not apply more than 6.4 lbs. active ingredient (8.5 lbs. product) per acre per season. Do not apply within 5 days of harvest.

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CROPS	DISEASES		RATE LBS/ACRE	DIRECTIONS
Fig. Pol				Intended Application" schedules HE TWO TREATMENT SCHEDULES
Crab- apples Pears Quinca	Fabrea Leaf	le) b	6 0 or (1 5 lbs per 100 gal in dilute spray)	PRE-BLOOM Begin applications at 1/4 to 1/5 inchigreen tip and continue on a 7- to 10-day application schedule through bloom. Do not apply more than 19.2 lbs. active ingredient (25.6 lbs. product) per acre per year. Do not graze livestock in treated areas.
		*·••	3 0 or in 75 lbs oer 100 gal in in lute soray)	EXTENDED APPLICATION OR TANK MIX. For imprementation of IPM programs, applications based on tree row volume or for use as a resistance imprementation begin apolications at fix to 12 inchigneen tip and continue applications on a 7, to 10 day schedule through the second cover spray or to within 77 days of harvest. Do not apply more than 16 8 hbs. active ingredien (22, 4 lbs. product) per acre per year. Do not graze livestock in freated areas. It is recommended that this product be used in an integrated Pest Management Program.

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	DISEASES	RATE LUS/ACRE	DIRECTIONS	
Barraria's	Sigatoka	2030	Apply when leaves first appear and repeal as needed on a 14-21 day interval. Do not apply niore than 24-los active ingredient (32-los product) per acre per season. May be applied up to the day of harvest.	
Cranberries	Fruit Rol	1060	Begin applications at mid bloom and repeat at 7 to 10 day intervals. Co not apply within 30 days of harvest. Do not apply in ore than 14.4 lbs. active ingredient (19.2 lbs. product) per acre per season.	
Grapes	Black Rot Bunch Rot Deadarm Downy M4dew	1 5 4 0 or (0 375- 1 0 tbs per 100 gal in a dilute spray)	East of the Recky Memetains Apply when shoots are ½ to 1½ inches long Continue at 7-10 day intervals. Do not apply within 66 days of harvest. Do not apply more than 19.2 lbs. active ingredient (25.6 lbs. product) per acre per Season	
		i 5-2 5 or (0 375- 0 625 fbs per 100 gal in a dilute spray)	West of the Rocky Meantains Apply when shoots are ½ to 1½ inches long Continue at 7-10 day intervals. Do not apply within 66 days of harvest. Do not apply more than 6.0 tos active ingredient (8 tos product) California.—Do not apply after bloom	
Papayas	Anthracnose Phytophhora Fruil Rot Black Spot (Cercospora)	1 5-2 5 or (0 375- 0 625 tbs per 100 gal in a dilute spray)	Apply first when disease pressure threatens and continue on a 14-21 day interval. Do not apply more than 26 lbs. active ingredient (37.3 lbs. product) per acre per season. Applications can be made up to the day of harvest.	

CHEMIGATION NOT FOR THIS USE IN CALIFORMA 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, tack 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 experts.

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

Do not connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has 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 utilizing a pressurized water and pesticide injection system must meet the following requirements:

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

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, solenoid-operated 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 injection pump when the water pump motor stops

The wrigation 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., draphragm 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 simultaneous stall-off.

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 injerting a larger volume of a more distribution 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 lines containing the product cannot be tlushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/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 impation water

PENNCOZEB DF 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 avoided.

Check local restrictions and requirements regarding sprinkler unigation applications, as they may vary from state to state.

SPRIAY 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 1/3 or 3/4 the desired amount of witer. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCOZEB JF and then the remaining volume of water.

APPLICATION INSTRUCTIONS:

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acie. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of PENNCOZEB DF into the irrigation 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 crup

STORAGE AND 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 mrnner 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 if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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WARRANTY AND DISCLAIMER

Eff Atochem North Amilical warrants that this material conforms to the chomical description on the label and is reasonably in for the purposes referrent to in the Directions for Use, subject to the risks referred to therein, et al. According to the purposes on the purpose of the purpose of

Eif Atochem and seller other this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which in ... The varied only by agreement in writing signed by a duly authorized representative in Erf Atochem.