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

APR 20 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Gary R. Sandberg ELF-ATOMCHEM NORTH AMERICA INC. AGRICHEMICALS DIVISION 2000 MARKET ST., 21ST FLOOR PHILADELPHIA, PA 19103

Subject:

Label Amendment Submission of 12/20/93 in Response to PR Notice 93-7

EPA Reg. No. 4581-358 PENNCOZEB 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:

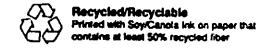
Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment 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.

BEST AVAILABLE COPY



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

BEST AVAILABLE COPY

ACCEPTED with COMMENTS In EPA Letter Dated

14 1 20 35-

elf atochem

PROPOSED LABEL

Under the Federal Insceticide, Fundicide, and Rodenticide Act an amended, for the pesticide registered under EPA Reg. No. 458/ - 358



Fungicide

An 80% Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate

ACTIVE INGREDIENT:

A coordination and manganese ethylene Ethylenebisdithiocarbamate ion $(C_4H_6N_2S_4)$ INERT INGREDIENTS:

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a siguien 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).

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 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 Statements

EPA Registration No. 4581-358

EPA Establishment No. 33910-HL-01

NET CONTENTS 50 Lbs./22.6 Kg

Sold by:

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

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

Pollow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and each 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.

uman flaggers must be in enclosed cabs.

he enclosed cabs must be used in a anner 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 Safety 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 issediately 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 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, 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 Pederal law 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 pasticide regulation.

AGRICULTURAL USB 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 greenbouses, 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 (PFE), 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 boars.

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 is a wettable powder 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.

INSTRUCTIONS FOR APPLICATION

FOR 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 ff. 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, 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

CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Field Corn and Corn Grown for Seed	Commen Rust Helminthosponum Leaf Blight	3915 June	Start application at the onset of disease and paper as needed. Do not apply more than 12 lbs active ingredient per sesson (15 lbs. preduct). Do not apply within 40 days of harvest.
Cotton	Rust :	15-20	Start applications at the oriset of disease. Apply as needed. Do not apply more than 6.4 lbs. active impredient per season (8.0 lbs. product). Do not apply within 60 days of harvest (or after bell opening).
Peanuts	Cercospora Leaf Spot Rust	1 0-2 0	Begin applications when disease first appears and repeat at 7- to 14-day intervals, using shorter interval during highed wealther. Do not feed treated wises to breastock. Do not use more than 12-8 tos active ingredient (16 tips product) per acre per season. Do not apply within 14 days of harvest.
Sugarteets	Cercospora Leaf Spot Rust	15-20	Begin applications when disease first threatens and repeal at 7-10 day intervals. Do not apply more than 11-2 lbs. active ingredient (14 lbs. product) per acre per season. Do not apply within 14 days of harvest.
Wheat Barley Cats Rye	Helminthosponum Leaf Spot Septona Leaf Spot Septona Glume Blotch Leaf Rust Tan Spot	10-29	Start application at onset of disease or when plants are in titlening to jointing stage and repeat at 7- to 10-day intervals. Do not make mere than 3 applications in one seasen. De not apply more than 4-8 lbs. active ingredent (6.0 lbs. 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

CROPS	DIŞEASES	RATE LBS/ACRE	DIRECTIONS
Asparagus	Rust Cercospora Leaf Spot	20	Begin applications when rust first appears and repeat at 10 day intervals as reeded. Use only on ferits after spears have been harvested. Do not apply more than 6.4 lbs. active impredient (8 lbs. product) per acre per seeson. Do not apply within 180 days of harvest. (In California and Artzone, the PHI is 120 days).
Sweet Corn Pepcorn Sweet Cern used for seed production	Common Rust Helminthosponum Leaf Blight	10-15	East of the Miselschpil (including Arterises & Leuisians) Apply in sufficient writer for thorough coverage Start applications when disease first appears and report at 4-7 day intervals. Do not apply within 7 days of hervest. Do not leed treated terage (plant staft and leaves) to livestech. Do not apply more than 18 lbs: active impredient (22.5 lbs product) per acre per crop
		10-15	West of the Micelantipal (except Artansas & Lourages) Apply in sufficient pater for thoroughtcoverage. Start applications when disease first allyeers and repeat 8f 4-7 day intervals—80 hot apply writer by 7 days or harvest—80 flot teed treated follage (plant staff till flaves) to investect. Do nits apply more than 6 0 lbs. active ingredient (7.5 lbs. product) per acre per cres
Cocondary (Afternane (Macrospedium) Lest Spot Angular Leaf Synthaconool Objerty Military Pythyre Frud	18:30	Been with discout fireators or flants bearing to the Spray be a 7-10 day glasted stang tepher rite and/or shorter paterties under severe discour pressure. Do not apply more than 19 2 the actify replicated (24 the product) per acre per season. Do for apply factor 5 days of hervise.

VEGETABLE	CROPS	Communities

FEGETABLE CROPS commund			3 1 6	
CROPS	DISEASES	RATE LOS ACRE	DIRECTIONS	
Fenset :	Late Bight	\$20	Apply when disease transitions. Make applications as needed on a PPD day interval. Do not use more than 12 lb its active ingredient per season (15 lbs. product). Do not apply within 14 days of harvest.	
Meions bockeding: clirationess, calabas creishaws hencydeus watermeions	Ritemana Leaf Spot Rinthrachose Cercospora Leaf Spot Downy Middew Gummy Stem Blight	20.30	Apply as soon as plants begin to run or when disease threatens. Spray on a 7-10 day interval as necessary using higher rate and or shorter intervals under severe disease pressure. Do not apply more than 19.2 tos. active ingredient (24. tos. product) per acre per season. Do inst apply within 5 days of harvest.	
Oners (Ory Bulb)	Butyles Leaf Bight Downy Mildew Neck Rot Purple Blotch	2 0-3 0	Begin applications when deceases are first reported in the area. Repeal at 7 day intervals throughout the season. Do not apply within 7 days of harvest; do not apply to exposed bulbs. Do not apply more than 24.0 be active impredient (30 lbs. product) per acre per crop.	
(Furrew Drench)	Smut	30	Apply as a furrow drawch at time of planting enion seeds. Use 75 to 125 gallons of water per acre. Do not use more than 2.4 lbs. active ingredient (3.0 lbs. product) per 29,000 below feet or row (18 inch spacing). Do not use in California.	
Polifies	Early Bight Late Bight	10-20	Begin applications when plants are 4-6 inches high, and report at 5-10 day intervals, (more frequently under severe disease conditions) throughout the season. Do not apply more than 11.2 lbs. active impredient (14 lbs. preduct per acre per crop. Do not apply within 14 days of harvest (except in Connecticut, Pierda, Maine, Massachisetts, New Hampetine, New York, Pennsylvarie, Verment, Waconsin, when a 3 day PHI is allowed). It is recommended that this product be used within a bringgrated Post filangement Program. Was tall should occur. 14 days before faceward.	
Potato Tuber Traziment	Fusanum Seed Piece Decay		Dip whole or cut seed pieces in motivire of 1½ its of product per 50 gallons of water, drain and plant immediately. If seed pieces are to be held before planting, spritad out to dry in a cool place. Do not use treated seed pieces for tool or feed purposes.	
Squash (Summer)	Anthracnose Downy Mildew	20-30	Begin when plants start to run. Spray on a 7-10 day interval as needed using higher rate and/or shorter intervals under severe detacse pressure. Do not apply mere than 19.2 lbs. active improblem (24 lbs. preduct) pur acre per season. Do not apply within 5 days of ternest.	

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CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Tomatoes	Anthracnose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septona Leaf Spot	15-30	East of the Misalesippi Begin applications when seedlings emerge or transplants are set and repeal at 7-10 day intervals throughout the sasson. Do not apply within 5 days of harvest. Do not apply more than 16 8 lbs. active ingradient (21 lbs. provuct) per acre per cree.
		1 5-2 0	West of the Mississippi Apply on a 7-10 day exterval as needed. Do not apply more than 6.4 lbs. active ingredient (8 lbs product) per acre per sessen. Do not apply within 5 days of harvest.

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CHOPS		MISEASES	RATE LBS/ACRE	DIRECTIONS
A COM	1	Bee either the "P	re-Bloom" or "E R INTEGRATE T	xtended Application' schedules HE TWO TREATMENT SCHEDULES
Pears Quince	7	Rusts (including Cedal apple) fabrea Libri Spot State Scate Soot Blotch	6 0 or (1 5 lbs per 100 gal or divise spray)	PNE-BLBORI: Begin applications at 1/s to 1/s inch green to and continue on a 7- to 10-day application schedule through bloom. Do not apply more than 19 2 flux active ingredient (24 flux product) per acre per year. Do not graze livestock in treated areas.
			3 0 or (0 75 lbs per 100 pal in inute seray)	EXTENDED APPLICATION ON TANK MIX: For implementation of IPM programs, applications based on tree-row volume or for use as a resistance management tool begin applications at % to ½ inch green by and centinue applications on a 7- to 10-day schedule through the second cover spray or to within 77 days of harvest. Do not apply within 77 days of harvest. Do not apply more than 16 0 to active ingredient (21 lbs. product) per acre per year. Do not apply more than 16 0 to schee ingredient (21 lbs. product) per acre per year. Do not grant livestock in treated areas. It is responsed that this product be used to an integrated Post Management Program.

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CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Bonones	Sigatoka	7030	Apply when leaves first appear and repeat as needed on a 14-21 day interval. Do not apply more than 24 lbs active ingredient (30 lbs product) per acre per season. May be applied up to the day of harvest.
Cranberries	Fruil Rol	3 0-6 0	Begin applications at mid-bloom and repeat at 7- to 10-day intervals. Do not apply within 30 days of harvest. Do not apply more than 14-4 libs are digraduant (18 lbs. product) per acre per season.
Grapes	Black Rot Bunch Rot Deadarm Downy Midew	1 5-4 0 or (0 375- 1 0 lbs per 100 gall in a dilute spray)	East of the Recey Mountains Apply when shouts 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 (24 lbs. product) per acre per season.
		1 5-2 5 or (0 375- 0 625 lbs per 100 gal in a dilute spray)	West of the Rectly Mountains Apply when shoots are 1/2 to 11/2 inches long Continue at 7-10 day intervals. Do not apply within 66 days of harvest. Do not apply more than 6 0 lbs. active impredient (7.5 lbs. product) California—Do not apply after bloom
Papayas	Anthracnose Phytophthora Fruit Rot Black Spot (Cercospora)	1 5-2 5 or (0 375- 0 625 lbs 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 28 fits active ingredient (35 fits product) per acre per season. Applications can be made up to the day of harvest.

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 experts.

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 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, 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 injection 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 positiodes 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 lavors drift beyond the area intended for treatment

Apply PENNCOZEE only through systems containing anti-syphon and Lheck 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 shut-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 injecting a larger volume of a more deute suspension per unit time.

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

Do not apply when wind speed tavors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed 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 irrination water.

PENNCOZEB 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 irrigation applications, as they 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 in a mix tank. Fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCOZEB 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 into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB 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 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

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

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WARRANTY AND DISCLAIMER

ER Alochem North America warrants that this material conforms to the chemical description on the liabil and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MENCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SMALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL 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 EXPENSES INCURRED IN PLANTING OR HARVESTING.

Ell Alochem and setter 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 duty authorized impresentative of Ell Alochem.

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