elf atochem

MAR 07 1995



. . . 100.0%



75% Dry Flowable Fungicide

**NOT FOR USE IN CALIFORNIA** 

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%	. 4.075
Ethylenebisdithiocarbamate ion										
(C₄H <sub>6</sub> N <sub>2</sub> S₄) INERT INGREDIENTS	•						 -			25.0%

# 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 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.

For Directions For Use and Chemigation Instructions see Following Pages.

EPA Registration No. 4581-370

EPA Establishment No. 33910-HL-01

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ELF ATOCHEM NORTH AMERICA, INC. AGCHEM DIVISION

2000 Market Street, Philadelphia, PA 19103\_

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# PRECAUTIONARY STATEMENTS HAZARDS 10 HUMANS (AND DOMESTIC ANIMALS) CAUTION

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

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves Protective eyewear when mixing or loading
- Shoes plus socks 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 CONTROLS STATEMENTS:**

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 pesticides [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 pesticides [40 CFR 170.240 (d) (4-6)]. The handler PPE requirements may be reduced or modified as specified 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 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. Orift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Except as specified for the labeled use on cranberries, do not apply directly to water, or 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.

## 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.

# **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. It 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 (PPE), and restricted-entry interval. The 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 hours.

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

### **GENERAL INFORMATION**

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

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with it 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 applica tion. For any requirements specific to your State or Tribe, consult the agency respon sible for pesticide regulation.

# INSTRUCTIONS FOR APPLICATION

FOR AIR APPLICATION use at the rate indicated in sufficient water for thorough cov erage, a minimum of 2 gallons per acre for field crops and 10 gallons per acre for orchar-

Use a Spreader/Sticker at rate of 4 fl. oz. per 100 gallons spray if needed. Add prod uct slowly to water in the spray tank with agitation, or premix thoroughly in separat 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 sever disease pressure, but do not exceed the maximum rate or apply more frequently tha the minimum interval given in the directions for that crop.

# MAXIMUM SEASONAL POUNDAGE WHEN USED IN CONJUNCTION WITH ONE OR MORE OTHER EBDC PRODUCTS

#### **FOLIAR APPLICATIONS**

#### Where EBDC Products Used Allow The Same Maximum Poundage of Active ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient (maneb, mancozet or metiram) is used on a crop during the same growing season and the EBDC proc. ucts used allow the same maximum poundage of active ingredient per acre pe season, then the total poundage of all such EBDC products used must not exceed an one of the specified individual FF 3C product maximum seasonal poundage of activ ingredient. Cowed per acre.

### Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient is used on a crop durin the same growing season and the EBDC products used allow different maximur poundage of active ingredient per acre per season, then the total poundage of all suc EBDC products used must not exceed the lowest specified individual EBDC produc maximum seasonal poundage of active ingredient allowed per acre.

## SEED TREATMENT

In addition to the maximum number of foliar applications permitted by the formul stated above, a single application for seed treatment may be made on crops which hav registered seed treatment or foliar uses.

#### FIELD CROPS

CROPS	DISEASES	NATE LESVACRE	DIRECTIONS
Field Corn and Corn Grown for Sand	Common Post Halminthosperium Leef Stigle	1 0-1.5	Start application at the enect of disease and report as needed. Do not apply more than 12 the active ingredient per sesson (16 ths product). Do not apply within 46 days of hervest.
Cetten	Post	1 5-2 0	Start applications at the enset of disease. Apply as needed. Do not apply more than 6.4 lbs. active ingredient per season (8.5 lbs. product). Do not apply within 50 days of harvest (or ofter bott opening).
Promote	- Corceapors Loui Spot Root	1.0-2 0	Bugin applications when disease first appears and repeat at 7- to 14-day intervals, using shorter interval during humid weether. Do not feed treated vinus to Eventick. Do not upo more than 12 the "active ingredient (17 the product) per acro glavedauxii, Do not apply within 14 days of hervals.
Superheels	Corcespora Leaf Spot Rust	15-2.0	Bopts adjaination when disease first threatens and registrat, 7,18 day intervals. Do not apply more than 11.2 lbs. active ingredient (15 lbs product) perfects per sesson. Do not apply within 14 days of hervool.
Wheel Safey Cals Rys	Haminthesperium Leef Speel Septeria Leef Septeria Glume Blatch Leef Rust Tan Speel	16-26	Start application at enset of disease or when plants are in illining to jointing stage and report at 7- to 19-dry fir sivels. Do not region more than 3 application, in une season: Do not apply more than 4 8 fbs. active ingredient (6 4 fbs. product) per acre per rings. Do not apply within 26 days of hervest. Do not grave fluoristick in treded aroms prior to hervist. Do not apply after heading (prouded, 16 5 Freines)

CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Asparagus	Rust Cercospora Leaf Spot	20	Begin applications when rust first appears and reprat at 10 day intervals as needed. Use only on ferns after spears have been harvested. Oo not apply more than 6.4 libs. active ingredient (8.5 libs product) per acre per season. Do not apply within 180 days of harvest. (In California and Arizona, the PHI is 120 days).
Sweet Corn Popcorn Sweet Corn used for seed production	Common Rust Helmintosporium Leef Blight	10-15	East of the Micsissippi (including Arkansas & Leussana) Apply in sufficient water for therough coverage. Start applications when disease first appears and repeal at 4-7 day intervals. Do not apply within 7 days of harvest. Do not lead treated forage (plant staff and feeves) to livestock. Do not apply mere than 18 libs active ingradient (24 libs. product) per acre per crop.
		1.0-1 5	West of the Missionippi (except Arianaas & Louisiana) Apply in sufficient water for therough 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 (plan staff and feaves) to treated to not apply more than & D libs acline ingredient (& libs product) per acre per crap.
Cucumbers	Alternana (Macraspanium) Leaf Spot Angular Leaf Spot Anthracnose Downy Mildew Pythium Fruit Rot	1 5-3 0	Begin when disease threatens or plants begin to run. Spray on a 7-10 day interval using higher rate and/or shorter intervals under severe disease pressure. Do not apply mere than 19 2 lbs: active ingredient (25.6 lbs: product) per acre per season Do not apply within 5 days of harvest.
Fennet	Early Blight Late Blight	1 5-2 0	Apply when disease threaters. Make applications as needed on a 7-10 day interval. Do not use more than 12 8 los active ingredient per season (17 lbs product). Do not apply within 14 days of harvest.
Metors including cartalogus, casalos, crenshews, honeydews, watermaters	Afternana Leaf Spot Anthracnose Cercospora Leaf Spot Downy Middew Gureny Stem Blight	20-30	Apply as scon 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. On not apply more than 19.2 libe: active ingredient ,25 & libs: product) per acre per season. Do not apply within 5 days of harvest.
Onions (Dry Bulb)	Betryks Leef Blight Downy Mildew Heck Rot Purple Blotch	2 0-3 0	Segin applications when diseases are first reported in the area. Repeat at 7 day men-rals throughout the season. De not apply within 7 days of harvest; do not apply to exposed bulbs. Do not apply more than 24 0 lbs. active ingredient (32 lbs. product) per acre per crop.
Onions (Furrow Orench)	Smut	30	Apply as a furrow dranch at time of planting enron seeds. Use 75 to 125 gallens of water per scre. Do not use more than 2.4 liss, active ingradient (3.2 libs, product) per 29,000 linear feet of row (18 inch specing). Do not use in California.
Politoes	Early Might Late Might	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 sease. De not apply more than 11.2 the, active ingredient (15 0 the, product) per acre per crep. De not apply within 14 days of harvest (except in Connecticut, Delevere, Florids, Males, Messachusette, Michigan, New Hampehre, New York, Ohio, Panneyhone, Phode lotted, Verment, Wisconsin, when a 3 day PHI is allowed). It is resemmended that this product be used within an integrated Post Management Program. Vine titll sheeted occur 14 days before bervest.
Putate Tuber Transvert	Fosarium Seed Place Decay		Dip whole or cut seed place in michare of 1% like of product per 50 gallens of water, drain and plant immediately ill seed places are in the hold before planting, spread out to dry in a cool place. Do not use treated seed places for food or feed purposes.
Squash (Summer)	Anthracnose Downy Middew	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 disease pressure. De not apply more than 19 2 lbs. active ingredient (25 6 lbs. product) per acre per sesson. De not apply within 5 days of horvest.

CROPS	DISEASES	RATE LBS:ACRE	DIRECTIONS
Tornatoes	Anthracrose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septera Leaf Spot	1 5-3 0	East of the Mississapei Begin applications when seedings emerge or transplants are set and repeat at 7-10 day intervals throughout the season. Do not apply within 5 days of harvest. On not apply more than 16 8 tos active ingredient (22 4 tos product) per acre per crop.
		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

CROPS	DISEASES	RATE LOS/ACRE	DIRECTIONS
FOR POME FR	1	Lubache	DIRECTIONS
	Use either the "P		xtended Application' schedules THE TWO TREATMENT SCHEDULES
Apples, Crab- apples, Pears Ownce	Rusts (including Cedar apple) Fabria Leaf Spot Flyspeck Scab Sooty Blosch	6 0 or (1 5 lbs per 100 gal in deute spray)	PRE-BLOOM: Begin applications at '4 to '5 inchigreen tip and continue on a 7- to 30-day application schedule through bloom. De not applimore than 19 2 lbs: active ingredient (25.6 lbs. product) per acre per year. Do not graze avestock in treated areas.
		3 0 or (0 75 ths per 100 gal in delute spray)	EXTENDER APPLICATION OR TANK MIX: For implementation of IPM programs, applications based on tree-row volume or for use as a resistance management tool begin applications at ½ to ½ inch green 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 within 77 days of harvest Do not apply more than 16.8 tos active ingredien (22.4 lbs. product) per acre per year. On not graze livestock in treated areas it is recommended that this product be used to an integrated Pest Management Program.
Bananas	Sigatoka	2 0-3 0	Apply when leaves first appear and repeat as needed on a 14-21 day interval. Do not apply more than 24 this active ingredient (32 lbs product) per acre per season. May be applied up to the day of harvest.
Cranberries	Fruit Rot	30-60	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 tos active ingredient (19.2 lbs. product) per acrept season.
Grapes	Black Rot Bunch Rot Deederm Downy Mildew	1 5-4 0 or (0 375- 1 0 lbs. per 100 gal in a diluta spray)	East of the Recty Mountains 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 that 19 2 hs. active ingredient (25 6 lbs. product) per acre per season.
		1 5-2 5 er (0 375- 0 625 dvs. per 100 gal in a dilute apray)	West of the Recky Meentains 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 that 6 0 this active ingredient (8 the product) Cottlerels—De not apply after bloom
Рариун	Anthromese Physiothers Fruit Ret Black Spet (Cercespors)	1 5-2 5 er (0 375- G 625 fLe) per 200 gal m a dépte	Apply first when disease pressure threstens and continue pr. e.74-21 day interval. On not apply more than 28 libe ractive ingredient (37.3 libs product) full duty per seeson. Applications can be made up to the day of harvest.

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### 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 grin, 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 rekel 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 pesticides and capable of being litted 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-syphen 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 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 dilute suspension per unit time.

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

On 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 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 irritation water.

PENNICOZES 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 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 DF in a mix tai k. Fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agriation. 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 OF into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB OF 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 OF has been completed, do not wrigate 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.

#### **WARRANTY AND DISCLAIMER**

EN Alochem North America warrants that this material conforms to the chemical description on the label and is reasonably to for the purposes referred to in-the Directions for Use, subject to the risks referred to therein elef a tochem Markes to Other express on IMPLIED WARRANTY OF FITNESS OR IMPRICIAL BALLY OR AIRY OTHER EXPRESS OR IMPLIED WARRANTY IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSCOURTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE ON HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROPITS, BUSINESS REPUTATION, OR CUSTOMERS LABOR COST, OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Ell Alochem 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 Ell Alochem.

Made in Holland

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