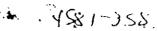
MAR U7 1995









# **Fungicide**

# NOT FOR USE IN CALIFORNIA

An 80% Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate

#### **ACTIVE INGREDIENT:**

A coordination product of zinc ion and manganese ethylene bisdithiocarbamate 80% Manganese + 16% Zinc + + 2% Ethylenebisdithiocarbamate ion 62%  $(C_4H_6N_2S_4)$  INERT INGREDIENTS: 20%

# 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

EPA Registration No. 4581-358

EPA Establishment No. 33910-HL-01

NET CONTENTS \_\_\_\_\_

Sold by:

# ELF ATOCHEM NORTH AMERICA, INC. AGCHEM DIVISION

2000 Market Street, Philadelphia, PA 19103



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

May cause irritation of eyes. Harmful 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. 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.

#### 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 is a wettable powder containing a coordination prod manganese ethylenebisdithiocarbmate, and is recommended for the control of many important plant disease.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner in labeling.

Do not apply this product in a way that will contact workers or off directly or through drift. Only protected handlers may be in the artion. For any requirements specific to your State or Tribe, consult t sible for pesticide regulation.

### INSTRUCTIONS FOR APPLICATION

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

Use a Spreader/Sticker at rate of 4 fl. oz. per 100 gallons spray if r uct slowly to water in the spray tank with agitation, or premix thore holding tank for concentrate or aircraft sprayers. Continuous agita keep the product in suspension.

When dosage ranges are given, use the higher rate and shorter inte disease pressure, but do not exceed the maximum rate or apply mothe minimum interval given in the directions for that crop.

### MAXIMUM SEASONAL POUNDAGE WHEN USED IN CO WITH ONE OR MORE OTHER EBDC PRODUC

#### **EOLIAR APPLICATIONS**

Where EBOC Products Used Allow The Same Maxin Poundage of Active Ingredient Per Acre Per Seas

If more than one product containing an EBDC active ingredient (nor metiram) is used on a crop during the same growing season an ucts used allow the same maximum poundage of active ingredient pethen the total poundage of all such EBDC products used must not the specified individual EBDC product maximum seasonal poundational allowed per acre.

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

Poundage of Active Ingredient Per Acre Per Seas: If more than one product containing an EBDC active ingredient is use the same growing season and the EBDC products used allow dipoundage of active ingredient per acre per season, then the total po EBDC products used must not exceed the lowest specified individing maximum seasonal poundage of active ingredient allowed per acre SEED TREATMENT

In addition to the maximum number of foliar applications permitted by above, a single application for seed treatment may be made on crop istered seed treatment or foliar uses.

## FIELD CROPS

CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Field Corn and Corn Grawn for Seed	Common Rust Helminthosporium Leet Blight	1 0-1 5	Start application at the enset of repeat as needed. Do not appliantive ingredient per season (1 Do not apply within 40 days of
Cotton	Rust	1 5-2.0	Start applications at the onset as needed. On not apply more ingreduml per season (8 0 lbs apply within 60 days of harves opening)
Peanuts	Cercospors Leaf Spot Rust	1 0-2.0	Begint applications when disper regard in 7- for 4-day intervals interval during humid weather, tread of more twestock. Do read of the form the form the form of the error per selection. Do not apply harvest
Sugarbeets	Cercospora Leaf Spot Rust	1 5-2.0	Begin applications when dises and repeat at 7-10 day interval more than 11,2 lbs. active ing product) per acre per sesson. 14 dams of hinvert.
What Barley Cats Rys	Helminthosporium Leaf Spot Septoria Leaf Spot Septoria Glume diotch Leaf Rust Tan Spot	· 0-2 r	Start application at onset of deplants are in fellening to jointing at 7: to 10-day intervals. Do in 3 applications to one eason it than 4 it if is, a-raive ingredient per acre per crop. Do not apply harvest. Ou sick yraze investion prior to furment. On not apply (around 10.5 Feetes).

#### VEGETABLE CROPS

CROP\$	DISEASES	RATE LBS/ACRE	DIRECTIONS
Asparagus	Ausi Cercospora Leaf Spot	20	Begin applications when rust first appears and repeal at 10 day intervals as needed. Use only on terns after spears have been harvested. Do not apply more than 6.4 lbs. active ingredient (8 lbs. product) per acre per season. Do not apply within 180 days of harvest. (In California and Anzona, the PHI is 120 days).
Sweet Corn Popcorn Sweet Corn used for seed production	Common Rust Helminthosponium Leaf Blight	10-15	East of the Mississippi (including Arbansas & 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 lead treated forage (plant staffs and feaves) to investocit. Do not apply more than 18 libs, active ingradient (22.5 libs, product) per acre per crop.
		1 0-1 5	West of the Mississippi (except Arkansas & Louisana) Apply in sufficient water for thorough covarage 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 livestock. Do not apply more than 6.0 tbs. active ingredient (7.5 lbs product) per acre per crop
Cucumbers	Alternaria (Macrosperium) 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 more than 19 2 lbs. active ingredient (24 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 threatens. Make applications as needed on a 7-10 day interval. Do not use more than 12-8 lbs. active ingredient per season (16 lbs. product). Do not apply within 14 days of harvest.
Melons including cantaloupes, casabas, crenshaws, honey-lews, watermelons	Alternana Leaf Spot Anthracnose 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 lbs. active ingredient (24 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Onions (Dry Bulb)	Botrytis Leaf Bitgnt Downy Milderw 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 within 7 days of harvest; do not apply to exposed butbs. Do not apply more than 24 0 ths, active ingredient (30 lbs. product) per acre per crop.
Oniors (Furrow Diench)	Smul	30	Apply as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acra On not use more than 2.4 lbs. active ingredient (3.0 lbs. product) per 29,000 linear feet of row (18 inch spacing). Do not use in California.
Potatoes	Early Blight Late Blight	10-20	Begin applications when plants are 4-6 inches high, and repeat at 5-10 day intervals, (more frequently under severe disease concitions) throughout the season. Do not apply more than 11-2 lbs. active ingredient (14 lbs. product) per acre per crop. Do not apply within 14 days of harvest (except for: Connecticut, Detaware, Florida, Mane, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Wisconsin when a 3 day PHI is allowed). It is recommended that the preduct be used within an lotegrated Pest Massagement Pregram, Vine till should accur 14 days before harvest.
Potato Tuber Treatment	Fusarium Seed Piece Decay		Dip whole or cut seed pieces in mixture of 1½ lbs. of product per 50 gallons of water, drain and plant immediately. If seed pieces are to be held 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 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 disease pressure. Do not apply more than 19.2 for active ingredient (24 lbs. product) per acre per season. Do not apply within 5 days of harvest.

## VEGETABLE CROPS continued

CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Tomatoes	Anthracnose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot	1530	East of the Mississippi Begin applications when seedlings emerge or transplants are set and repeal at 7-10 day intervals throughout the season. Do not apply within 5 days of harvest. Do not apply more than 16 8 tos, active ingredient (21 lbs. product) per acre per crop.
		1 5-2 0	Wast of the Mississippi Apply on a 7-10 day interval as needed. Do not apply more than 6.4 lbs. active ingredient (8 lbs product) per acre per season. Do not apply within 5 days of harvest.

#### FRUIT CROPS

FRUIT CROP	<u> </u>				
CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS		
FOR POME FRUITS  Use either the "Pre-Bloom" or "Extended Application" schedules  DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES					
Apples. Crab- apples. Pears Quince	Rusts (including Cedar apple) Fabrea teal Spot Flyspeck Scab Scoty Blotch	6 0 or (1 5 lbs per 100 gat in dilute spray)	PRE-BLOOM: Begin applications at 14 to 15 inch- green tip and continue on a 7- to 10 day application schedule through bloom. Do not apply more than 19 2 tbs. active ingredient (24 tbs. product) per acre per year. Do not graze livestock in treated areas.		
		3 0 or (0 75 lbs per 100 gal in dilute spray)	EXTENDED APPLICATION OR TANK MKX: For implementation of IPM programs, applications based on tree-row volume or for use as a resistance management tool begin applications at 1/4 to 1/5 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 fbs. active ingredient [21 fbs. preduct) per acre per year. Do not graze investock in freated areas. If its recommended that this preduct be used in an integrated Pest Management Program.		
Bananas	Sigatoka	20-30	Apply when leaves first appear and repeal 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.		
Granbernes	Fruit Rot	3 0-6 0	Begin applications at mid-bloom and repeat at 7- to 10-day intervals. Do not apply within 30 days of narvest. Do not apply more than 14-4 lbs acrive ingredient (18 lbs. product) per acre per season.		
Grapes	Black Rot Bunch Rot Deadarm Downy Mildew	t 5-4 0 or (0 375- 1 0 lbs per 100 gal in a dilute 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 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 m a dilute spray)	West of the Recky 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 lbs. active ingredient (7.5 lbs. product) Catifernia — Dd not apply after bloom 4.		
Papayas	Anthracnose Phytophthora Fruit Rot Black Spot (Cercospora)	1 5-2 5 or., (0 275- 0 620 lbs per 100 rat in i dilute spray)	Apply Infa: Main disease pressure threatens and continue on a 1A-21 day interval. Do not apply more than 28 lbs. active ingredient (35 lbs. product) per tore 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 wrigation 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 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 recomments:

system must contain a functional check valve, vacuum relief valve, and low pressure dra, appropriately located on the irrigation pipekine 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 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 shut-off

44 aintain a gentle continuous agitation in mix tank during mixing and application to assure orm suspension.

.. eater 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 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 knes and all nozzles before turning off irrigation 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 34 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, fertifizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions fisted 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**

Ell Alochem North America waitants 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 MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY IN NO CASE SHALL 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

Eff 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 duty authorized representative of Eff Atochem.

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