

4581-370

5-20-2001

4/19

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Mr. Christopher Davis
Product Registrations
Elf Atochem N.A., Inc.
2000 Market Street, 21st Floor
Philadelphia, PA, 19103-3222

MAR 20 2001

Dear Mr. Davis:

SUBJECT: Penncozeb 75WP Agricultural Fungicide
EPA Registration Number 4851-370
Your Submissions of November 24, 2000 and January 11, 2001

The amendment and data matrix referred to above, submitted in connection with registration under section (3) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) is conditionally acceptable provided that you make the following change:

Under "Personal Protective Equipment" and in the Agricultural Use Requirements box, change "waterproof gloves" to "chemical-resistant gloves made of any waterproof material."

Additionally, be aware that PR Notice 2000-3 requires that the First Aid statements must be changed by October 1, 2001 to the following:

If inhaled

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If swallowed

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

2/19

Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the label is enclosed for your records.

If you have any questions, please contact Lisa Jones of my staff by phone at (703) 308-9242 or by e-mail at jones.lisa@epa.gov.

Sincerely yours,



Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

Enclosure Stamped label

CONCURRENCES

| | | | | | | | | |
|-----------|--------------|--|--|--|--|--|--|--|
| SYMBOL ▶ | 7505C | | | | | | | |
| SURNAME ▶ | Lisa Jones | | | | | | | |
| DATE ▶ | Feb 28, 2001 | | | | | | | |

3/19

PENNCOZEB® 75DF

DRY FLOWABLE FUNGICIDE

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese ethylene
bisdithiocarbamate 75.0%

Manganese++ 15.0%

Zinc++ 1.9%

Ethylenebisdithiocarbamate ion (C₄H₆N₂S₄) 58.1%

OTHER INGREDIENTS: 25.0%

TOTAL 100.0%

EPA Registration No. 4581-370

EPA Establishment No. 33910-HL-01

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.)

FIRST AID

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.

Net Contents _____

Elf Atochem North America, Inc.
Agchem Division
2000 Market Street
Philadelphia, PA 19103

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

MAR 20 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

4851-370

4/19

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

Causes moderate eye irritation. 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
- Protective eyewear when mixing or loading
- Chemical-resistant apron when cleaning equipment, mixing or loading
- Waterproof gloves
- Shoes plus socks

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.

5/19

GENERAL INFORMATION

PENNCOZEB 75DF 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.

DIRECTIONS FOR USE

It is a violation of Federal 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 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. 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

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 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.

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.

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, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the

specified individual EBDC product maximum seasonal poundage of active ingredient allowed 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 during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

SEED TREATMENT

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

FIELD CROPS

| CROPS | DISEASES | RATE LBS/ACRE | DIRECTIONS |
|---|--|--------------------------|---|
| Field Corn, and Corn Grown for Seed | Common Rust Gray Leaf Spot Helminthosporium Leaf Blight | 1.0-1.5 | Start application at the onset of disease and repeat as needed. Do not apply more than 12 lbs. active ingredient per season (16 lbs. product.) Do not apply within 40 days of harvest. |
| Cotton | Rust Alternaria leaf spot | 1.5-2.0 | Start applications at the onset 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 45 days of harvest (or after boll 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 under severe disease pressure. Do not feed treated vines to livestock. Do not use more than 12.8 lbs. active ingredient (17 lbs. product) per acre per season. Do not apply within 14 days of harvest. |

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| Peanuts (tank-mix with Topsin M) | Cercospora Leaf Spot Rust Ascochyta Web Blotch Limb Rot | 1.5 lb Penncozeb 75DF plus 4-8 oz Topsin® M 70WSB Fungicide | Begin applications when disease first appears and repeat at 7- to 14-day intervals, using shorter interval during humid weather. Do not feed treated vines to livestock. Do not use more than 17 lbs. Penncozeb 75DF 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 (including triticale) Barley Oats Rye | Helminthosporium Leaf Spot Septoria Leaf Spot Septoria Glume Blotch Leaf Rust Tan Spot Scab (head blight)* | 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 intervals. Do not make more than 3 applications in one season. Do not apply more than 4.8 lbs. active ingredient (6.4 lbs. product) per acre per crop. Do not apply within 26 days of harvest. (46-day preharvest interval in California) Do not graze livestock in treated areas prior to harvest. Do not apply after heading (around 10.5 Feekes). |

* In California- scab control on wheat only

VEGETABLE CROPS

| CROPS | DISEASES | RATE LBS/ACRE | DIRECTIONS |
|--------------|------------------------------|--------------------------|---|
| Asparagus | Rust Cercospora Leaf 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). |

9/19

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| <p>Melons including: cantaloupes, casabas, crenshaws, honeydews, muskmelons, watermelons</p> | <p>Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight</p> | <p>2.0-3.0</p> | <p>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 (25.6 lbs. product) per acre per season. Do not apply within 5 days of harvest. Some cantaloupe varieties (ie. Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to Penncozeb 75DF fungicide. Consult State and Cooperative Extension Service Specialist prior to use.</p> |
| <p>Onions (Dry Bulb) including garlic and shallots</p> | <p>Botrytis Leaf Blight Downy Mildew Neck Rot Purple Blotch Rust</p> | <p>2.0-3.0</p> | <p>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 bulbs. Do not apply more than 24.0 lbs. active ingredient (32 lbs. product) per acre per crop. Do not allow spray or drift to contact bulbs after lifting from soil.</p> |
| <p>Onions (Furrow Drench)</p> | <p>Smut Damping Off Seed Rots Seedling Blights</p> | <p>3.0</p> | <p>Apply as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acre. Do not use more than 2.4 lbs. active ingredient (3.2 lbs. product) per 29,000 linear feet of row (18 inch spacing).</p> |

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| Potatoes | Early Blight Late Blight | 0.5- 2.0 | Begin applications when plants are 4-6 inches high by applying 0.4 to 0.8 lbs. active ingredient (0.5 to 1.1 lbs. product) per acre. As the vines increase in size, apply 1.2 to 1.6 lbs active ingredient (1.6 to 2.1 lbs. product) per acre at 5 to 10 day intervals or 0.6 to 0.8 lbs active ingredient (0.8 to 1.1 lbs. product) per acre at 3 to 5 day intervals. Do not apply more than 11.2 lbs. active ingredient (15 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 kill should occur 14 days before harvest. |
| Potato Seedpiece Treatment | Fusarium Seed Piece Decay Seedborne Common Scab | | Dip whole or cut seed pieces in mixture of 1 1/4 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) including edible gourds | Anthrachnose Downy Mildew | 2.0-3.0 | Start applications when plants are in the two-leaf stage. 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. |

11/19

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| Tomatoes | Anthracnose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot | 0.75-3.0 0.75-2.0 | East of the Mississippi Begin applications when seedlings emerge or transplants are set. Repeat applications of 0.6- 1.2 lbs active ingredient per acre (0.75-1.5 lbs product) at 3-7 day intervals, or 1.2-2.4 lbs active ingredient per acre (1.5-3.0 lbs product) at 7-10 day intervals throughout the season. Do not apply within 5 days of harvest. Do not apply more than 16.8 lbs. active ingredient (22.4 lbs. product) per acre per crop. West of the Mississippi Begin applications when seedlings emerge or transplants are set. Repeat applications of 0.6- 0.8 lbs active ingredient per acre (0.75-1.0 lbs product) at 3-7 day intervals, or 1.2-1.6 lbs active ingredient per acre (1.5-2.0 lbs product) at 7-10 day intervals throughout the season. 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. |
| | Bacterial Speck and Spot | | Use a full rate of a fixed copper fungicide in a tank mix combination with a half to full rate of Penncozeb 75DF. Follow application intervals specified on the copper fungicide label. |

12/19

FRUIT CROPS

| CROPS | DISEASES | RATE LBS/ACRE | DIRECTIONS |
|--|---|--|--|
| <p>FOR POME FRUITS Use either the "Pre-Bloom/Bloom Use" or "Extended Application" schedules DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES.</p> | | | |
| <p>Apples Crabapples Pears Quince</p> | <p>Rusts (including Cedar apple) Fabraea Leaf Spot Flyspeck Scab Sooty Blotch</p> | <p>6.4 or (1.6 lbs per 100 gal. in a dilute spray)</p> <p>3.2 or (0.8 lbs. per 100 gal. in a dilute spray)</p> | <p>PRE-BLOOM/BLOOM USE: Begin applications at 1/4 to 1/2 inch green 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.</p> <p>EXTENDED 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 1/4 to 1/2 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 lbs. active ingredient (22.4 lbs. product) per acre per year. Do not graze livestock in treated areas. It is recommended that this product be used in an Integrated Pest Management Program.</p> <p>Apply in a minimum of 50 gallons of water per acre.</p> |
| <p>Bananas (including Plantain)</p> | <p>Sigatoka</p> | <p>2.0-3.0</p> | <p>Apply when leaves first appear and repeat as needed on a 14-21 day interval. Do not apply more than 24 lbs. active ingredient (32 lbs. product) per acre per season. May be applied up to the day of harvest.</p> |
| <p>Cranberries</p> | <p>Fruit Rot</p> | <p>3.0-6.0</p> | <p>Begin applications at early bloom and repeat at 7-10 day intervals. Do not apply within 30 days of harvest. Do not apply more than 14.4 lbs. active ingredient (19.2 lbs. product) per acre per season.</p> |

13/19

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| <p>Grapes</p> | <p>Black Rot Bunch Rot Phomopsis (Deadarm) Downy Mildew</p> | <p>1.5-4.0 or (0.375-1.0 lbs. per 100 gal. in a dilute spray)</p> <p>1.5-2.5 or (0.375-0.625 lbs. per 100 gal. in a dilute spray)</p> | <p>East of the Rocky Mountains Apply when shoots are 1/2 to 1 1/2 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.</p> <p>West of the Rocky Mountains Apply when shoots are 1/2 to 1 1/2 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 ingredient (8 lbs. product).</p> <p>California---Do not apply after bloom.</p> <p>For late season control of black rot, deadarm, and downy mildew, the use of other approved fungicides is suggested.</p> |
| <p>Papayas</p> | <p>Anthracnose Phytophthora Fruit Rot Black Spot Cercospora</p> | <p>1.5-2.5 or (0.375- 0.625 lbs. per 100 gal. in a dilute spray)</p> | <p>Apply first when disease pressure threatens and continue on a 14-21 day interval. Do not apply more than 28 lbs. active ingredient (37.3 lbs. product) per acre per season. Applications can be made up to the day of harvest.</p> |

MISCELLANEOUS

| CROPS | DISEASES | RATE LBS/ACRE | COMMENTS |
|--------------------------------------|--|-----------------------------|---|
| <p>Christmas Trees (Conifer)</p> | <p>Lophodermium needle cast Pine gall rust Scirrhia brown spot</p> | <p>2 to 4 lbs. per acre</p> | <p>Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two week intervals as long as needed.</p> |
| <p>Douglas Fir</p> | <p>Swiss needle cast</p> | | |

17/19

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| Asparagus Crown (Planting Stock) | Crown Rot | 1 lb per 100 gal. | Place loosely packed crowns into a burlap bag and soak, with gentle agitation, in the fungicide solution for 5 minutes. Remove bag, drain well, and plant crowns as soon as possible. A tank large enough to hold a single burlap bag will treat 2 bags of crowns. Clean dipping suspension should then be prepared in a clean tank. Dirty crowns should be pre-washed to remove excess soil. |
| Caprifig | Assorted molds Endosepsis (Fusarium) | 1 lb per 25 gal. | Prepare mamme figs by making a shallow cut through the eye and then hand dividing to avoid wasp injury. Submerge mamme figs in the fungicide suspension for a minimum of 15 minutes. The fungicide suspension should be stirred frequently to prevent settling out. Fresh dipping solution should be used after treating 4 or 5 batches of figs. After treatment, figs should be drained prior to placement in trees. |
| Pineapple | Phytophthora heart rot | 3.2 lbs. per 10 gal. | Dip planting material in fungicide solution prior to planting. Stir solution frequently to prevent settling out. A new solution should be prepared when at least two-thirds of the volume has been used or sooner if soil from plant material has noticeably discolored the solution. Depending on the cleanliness and size of planting stock, up to 100 gallons of fungicide solution should be used to treat the propagative materials used to plant one acre. |

TURF- COMMERCIAL SOD FARMS- Not for use by homeowners

Start applications when grass greens-up in the spring or when disease first appears, and repeat at 7- to 14-day intervals or until disease is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 7-day spray schedule. Apply in sufficient water to provide adequate coverage.

TURF TOLERANCE- Treated turfgrass should be maintained in a vigorous growing condition. Turfgrass under stress will not respond to fungicide treatments as well as well-maintained turfgrass. Turfgrass tolerance to this product has been found to be acceptable, however, this product and tank mixtures with other products have not been

15/19

tested on all varieties of every turfgrass species or under all possible growing conditions. If user is unfamiliar with the performance of Penncozeb 75DF or tank mixtures, under user growing conditions, a limited area of turfgrass should be treated prior to initiating large-scale applications. The user should always exercise reasonable judgement and caution when using this product.

| Crop | Diseases Controlled | Rate per Application oz/1000 Sq. Ft. | Remarks- (Also refer to Directions for Use) | Restrictions |
|---------------------|--|---|--|---|
| Assorted Grasses | Helminthosporium melting out | 4 | | Do not graze treated areas. Do not use on grasses intended for grazing, such as range or pasture grasses. Do not feed clippings to livestock. Do not use on grasses grown for seed. |
| | Rust (leaf, stem, stripe) | 4 | | |
| | Copper spot Fusarium blight Red thread slime mold | 4 to 8 | | |
| | Algae | 5 | | |
| | Dollar spot | 6 to 8 | | |
| | Rhizoctonia brown patch | 4 | Apply on a 7-day spray schedule | |
| | Pythium blight | 8 | Apply at 5-day intervals, or more frequently, if conditions are especially favorable for disease development | |
| | Fusarium snow mold | 6 to 8 | Apply at 2- to 6-week intervals during winter. | |

16/19

SEED TREATMENT**

Seeds to be treated should be cleaned and well cured prior to treatment. PENNCOZEB 75DF may be applied to dry seed with conventional slurry or mist seed treating equipment or as a planter-box application. For best results, the seed must be completely and uniformly covered with fungicide. For seed treatment, a dye must be added to PENNCOZEB 75DF which will impart an unnatural color to the seed.

| CROP | DISEASES CONTROLLED | RATE OF PENNCOZEB 75DF PER APPLICATION | | REMARKS (Also refer to Directions for Use) | RESTRICTIONS |
|------------------------|--|--|--------------|---|---|
| | | OZ./BU. | OZ./100 LBS. | | |
| Barley | Covered smut Damping-off False loose smut Seed rots Seedling blights | 1.4 to 2.1 | 2.9 to 4.5 | For planter box treatment only | Treated seed should be labeled, "Must not be used for food, feed, or oil purposes." |
| Corn (field) | Damping-off Seed rots Seedling blights | 1.6 to 3.2 | 2.9 to 5.8 | | |
| Cotton (acid delinted) | Damping-off Seedling blights | | 3.2 | | |
| (reginned) | Damping-off Seedling blights | | 6.4 | | |
| Flax | Damping-off Seed rots Seedling blights | 2.1 to 4.3 | 3.8 to 7.6 | | |
| Oats | Damping-off Seed rots Seedling blights Smuts | 1.4 to 2.1 | 4.3 to 6.7 | For planter box treatment only | |
| Peanuts (shelled) | Damping-off Seed rots Seedling blights | 2.1 to 4.3 | 8.5 to 17.1 | | |
| Rice | Damping-off Seed rots Seedling blights | | 2.1 to 4.3 | Apply before, during and after soaking in water | |
| Rye | Bunt Damping-off Seed rots Seedling blights | 1.4 to 2.1 | 2.5 to 3.8 | For planter box treatment only | |
| Safflower | Seedborne rust (Puccinia carthami) | | 2.1 | | |

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| Sorghum | Covered kernel smut Damping-off Seed rots Seedling blights | 1.6 to 2.7 | 2.9 to 4.8 | | |
| Tomatoes | Damping-off Seed rots Seedling blights | | 8.5 | | |
| Wheat | Bunt Damping-off Seed rots Seedling blights | 1.4 to 2.1 | 2.3 to 3.5 | For planter box treatment only | |

** Not for this use in California

CHEMIGATION

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, 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.

18/19

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

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

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section.

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

Apply PENNCOZEB 75DF 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.

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

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

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

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when 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 irrigation water.

PENNCOZEB 75DF 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 75DF in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCOZEB 75DF 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 75DF into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB 75DF should be injected with a

19/19

positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE: When treatment with PENNCOZEB 75DF 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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