



4581-414

1-3-2007

1/28

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|--|---|--|---|
|   | <b>U.S. ENVIRONMENTAL<br/>PROTECTION AGENCY</b><br>Office of Pesticide Programs<br>Registration Division (7505P)<br>Ariel Rios Building<br>1200 Pennsylvania Ave., NW<br>Washington, D.C. 20460 | <b>EPA<br/>Registration<br/>Number:</b><br><br>4581-414    | <b>Date of<br/>Issuance:</b><br><br><del>1/3</del> 3 2007 |
|  | <b>NOTICE OF PESTICIDE:</b><br><u>  x  </u> Registration<br><u>    </u> Reregistration<br>(under FIFRA, as amended)   | <b>Term of Issuance:</b><br>Conditional                    |   |
|  |   | <b>Name of Pesticide Product:</b><br>Penncozeb EG Raincote |   |
| <b>Name and Address of Registrant (include ZIP Code):</b><br><br>Cerexagri, Inc.<br>630 Freedom Business Center, Suite 402<br>King of Prussia, PA 19406  |   |  |   |
| <b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.   |   |  |   |
| <p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3 (c) (7) (A) provided that you:</p> <ol style="list-style-type: none"><li>1. Submit/cite all data required for the registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li><li>2. Make the following label changes:<ol style="list-style-type: none"><li>a. Change the EPA Registration Number to 4581-414</li></ol></li></ol> <p>(Continued)</p> |   |  |   |
| <b>Signature of Approving Official:</b><br><br><br>Mary L. Waller, Product Manager 21<br>Fungicide Branch<br>Registration Division (7505P)  |   | <b>Date:</b><br><br>1/3/2007                               |   |

**b. page 1 - First Aid Statements:**

- Take the "Keep out of Reach of Children" statement, the signal word Caution and the Spanish-language statement out of the box. Only First Aid statements should be in the box.
- The Agency suggests that you provide a phone number for emergency contact purposes following the sentence "Have the product container or label with you . . ."

**c. page 2 - Precautionary Statements:**

- Remove the parentheses surrounding "humans and animals."
- Change the heading "Personal Protective Equipment" to "Personal Protective Equipment (PPE)."
- Move the sentence "Avoid breathing dust . . ." so that it follows the sentence "Avoid contact with skin, eyes or clothing."

**d. page 2 - User Safety Recommendations:**

Change "Reconmendations" to "Recommendations"

**e. page 2 - User Safety Requirements:**

Put the following text in a box marked "User Safety Requirements"

"Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them."

**f. page 3 - Spray Drift Management:**

Move the Spray Drift Management text so that it immediately precedes the "General Information for Agricultural Uses" section.

**g. page 3 - Agricultural Use Requirements:**

Place the Agricultural Use Requirements text into a box.

**h. page 4 - Non-Agricultural Use Requirements:**

Place the Non-Agricultural Use Requirements text into a box.

**i. page 4 - Professional Turf and Landscape Uses:**

Delete "unless wearing the personal protective equipment listed on this label.."

**j. page 13 - Seed Treatment text:**

Replace the text:

"Seeds/seed-pieces that have treated with this product that are then packaged or bagged for future use must contain the following labeling on the outside of the seed/seed-piece package or bag:

- When opening this bag or loading/pouring the treated seed/seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P, or HE filter.
- Treated Seed/Seed-Pieces - Do Not Use for Food, Feed, or Oil Purposes."

with:

"Seeds/seed-pieces that have been treated with this product that are then packaged or bagged for future use must contain the following labeling on the outside of the seed/seed-piece package or bag:

- Seed has been treated Penncozeb EG Raincote, a fungicide containing the active ingredient mancozeb
- Treated Seed/Seed-Pieces - Do Not Use for Food, Feed, or Oil Purposes.
- When opening this bag or loading/pouring the treated seed/seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P, or HE filter."

**k. page 14 - Seed Treatment text:**

Delete the bullet "After the seeds/seed pieces have been planted . . ."

Move the text "Exception: Once the seeds/seed . . . contact with the soil/media subsurface." to the Agricultural Use Requirements box.

**l. page 14 - Seed Treatment table:**

Delete the "Restriction" column.

**m. page 17 - Commercial (Non-Sod Farm) Turf Applications text:**

Delete "sod farms" from the first sentence.

4. Submit one (1) copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions, contact Lisa Jones of my staff at (703) 308-9424 or at [jones.lisa@epa.gov](mailto:jones.lisa@epa.gov).

Sincerely,



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

Enclosures: Stamped copy of label

4/28

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
~~JAN~~ 3 2007

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

4581-414

# PENNCOZEB® EG RAINCOTE

for Agricultural, Seed Treatment, and Turf & Ornamental Uses

## ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese ethylene

|   |       |
|---|-------|
| bisdithiocarbamate .....  | 75.0% |
| Manganese++ .....   | 15.0% |
| Zinc++ .....  | 1.9%  |
| Ethylenebisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) ..... | 58.1% |

OTHER INGREDIENTS ..... 25.0%

TOTAL ..... 100.0%

EPA Registration No. 4581-URU

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 inhaled

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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.

Net Contents \_\_\_\_\_

Cerexagri, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406

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

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Avoid breathing dust or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are natural rubber and polyethylene. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves (except pilots, groundboom applicators, and airblast applicators and for seed treatment uses, handlers who are bagging the treated seed or sewing bags)

Handlers opening bags of treated seed or loading/pouring the treated seed must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves, and a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P, or HE filter.

See engineering controls for additional requirements.

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.

**USER SAFETY RECCOMENDATIONS:**

- 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.
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

**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 flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic organisms. Do not apply directly to water, to areas where surface water is present or to inter-tidal areas below the mean water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

**CHEMICAL HAZARDS**

Do not allow product 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.

**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.

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

**WIND SPEED**

Do not apply at wind speeds greater than 15 mph.

**TEMPERATURE INVERSIONS**

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**OTHER STATE AND LOCAL REQUIREMENTS**

Applicators must follow all state and local pesticide drift requirements regarding application of Mancozeb. Where states have more stringent regulations, they must be observed.

**EQUIPMENT**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

**AERIAL APPLICATIONS:**

- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

**GROUND BOOM APPLICATION:**

- Do not apply with a nozzle height greater than 4 feet above the crop canopy.

**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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Seed treatments and professional applications to lawn grasses, golf courses, industrial (office park), municipal and residential lawns are not within the scope of the Worker Protection Standard.

### PROFESSIONAL TURF AND LANDSCAPE USES

Do not enter or allow entry into treated areas until sprays have dried unless wearing the personal protective equipment listed on this label.

### GENERAL INFORMATION FOR AGRICULTURAL USES

PENNCOZEB EG RAINCOTE is an extruded 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.

### INSTRUCTIONS FOR APPLICATION FOR AGRICULTURAL USES

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.

Note Concerning 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<br>LBS/ACRE   | DIRECTIONS   |
|--|--|--|--|
| Field Corn, and<br>Corn Grown for<br>Seed                  | Common Rust<br>Gray Leaf Spot<br>Helminthosporium<br>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.   |
| Peanuts  | Cercospora Leaf Spot<br>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.  |
| Peanuts (tank-mix with Topsin M)                           | Cercospora Leaf Spot<br>Rust<br>Ascochyta Web Blotch<br>Limb Rot   | 1.5 lb<br>PENNCOZEB<br>EG RAINCOTE<br>plus<br>4-8 oz Topsin®<br>M 70WSB<br>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 EG RAINCOTE per acre per season. Do not apply within 14 days of harvest.   |
| Sugarbeets   | Cercospora Leaf Spot<br>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<br>(including<br>triticale)<br>Barley<br>Oats<br>Rye | Helminthosporium<br>Leaf Spot<br>Septoria Leaf Spot<br>Septoria Glume Blotch<br>Leaf Rust<br>Tan Spot<br>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

10/28

## VEGETABLE CROPS

| CROPS   | DISEASES   | RATE<br>LBS/ACRE                                       | DIRECTIONS   |
|---|--|--|--|
| Asparagus   | Rust<br>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).  |
| Corn,<br>sweet corn<br>used for fresh<br>and<br>processing,<br>popcorn, and<br>sweet corn<br>used for seed<br>production,<br>including hybrid<br>seed | Common Rust<br>Gray Leaf Spot<br>Helminthosporium Leaf<br>Blight   | 1.0-1.5<br><br><br><br><br><br><br><br><br><br>1.0-1.5 | East of the Mississippi (including Arkansas and Louisiana) Apply in sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4-7 day intervals. Do not apply within 7 days of harvest. Do not feed treated forage (plant stalk and leaves) to livestock. Do not apply more than 18 lbs. active ingredient (24 lbs. product) per acre per crop. West of the Mississippi (except Arkansas & Louisiana) Apply in sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4-7 day intervals. Do not apply within 7 days of harvest. Do not feed treated forage (plant stalk and leaves) to livestock. Do not apply more than 6.0 lbs. active ingredient (8 lbs. product) per acre per crop. |
| Cucumbers   | Alternaria<br>(Macrosporium)<br>Leaf Spot<br>Anthracnose<br>Downy Mildew<br>Pythium Fruit Rot<br>Cercospora Leaf Spot<br>Gummy Stem Blight<br>Scab | 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 (25.6 lbs. product) per acre per season. Do not apply within 5 days of harvest.   |
| Fennel  | Early Blight<br>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 (17 lbs. product). Do not apply within 14 days of harvest.   |

11/28

| CROPS  | DISEASES   | RATE<br>LBS/ACRE | DIRECTIONS   |
|--|--|------------------|--|
| Melons<br>including:<br>cantaloupes,<br>casabas,<br>crenshaws,<br>honeydews,<br>muskmelons,<br>watermelons | Alternaria Leaf Spot<br>Anthracnose<br>Cercospora Leaf Spot<br>Downy Mildew<br>Gummy Stem Blight | 2.0-3.0          | 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 EG RAINCOTE fungicide. Consult State and Cooperative Extension Service Specialist prior to use. |
| Onions (Dry Bulb) including garlic and shallots  | Botrytis Leaf Blight<br>Downy Mildew<br>Neck Rot<br>Purple Blotch<br>Rust                        | 2.0-3.0          | 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.  |
| Onions (Furrow Drench)   | Smut<br>Damping Off<br>Seed Rots<br>Seedling Blights   | 3.0              | 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). <b>Do not use in California.</b>  |

12/28

| CROPS  | DISEASES                     | RATE<br>LBS/ACRE | DIRECTIONS   |
|--|------------------------------|------------------|--|
| Potatoes   | Early Blight<br>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. |
| Squash<br>(Summer)<br>including edible<br>gourds | Anthrachnose<br>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.  |

13/28

| CROPS    | DISEASES   | RATE<br>LBS/ACRE | DIRECTIONS  |
|----------|--|------------------|---|
| Tomatoes | Anthracnose<br>Early Blight<br>Late Blight<br>Gray Leaf Mold<br>Gray Leaf Spot<br>Septoria Leaf Spot | 0.75-3.0         | East of the Mississippi<br>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. |
|          |  | 0.75-2.0         | West of the Mississippi<br>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 EG RAINCOTE. Follow application intervals specified on the copper fungicide label.  |

## FRUIT CROPS

| CROPS   | DISEASES   | RATE<br>LBS/ACRE  | DIRECTIONS   |
|---|--|---|--|
| <b>FOR POME FRUITS</b><br>Use either the "Pre-Bloom/Bloom Use" or "Extended Application" schedules<br><b>DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES.</b> |  |   |  |
| Apples<br>Crabapples<br>Pears<br>Quince   | Rusts (including Cedar Apple)<br>Fabraea Leaf Spot<br>Flyspeck<br>Scab<br>Sooty Blotch | 6.4 or (1.6 lbs per 100 gal. in a dilute spray)<br><br>3.2 or (0.8 lbs. per 100 gal. in a dilute spray) | <b>PRE-BLOOM/BLOOM USE:</b> 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.<br><b>EXTENDED APPLICATION OR TANK MIX:</b> 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.<br><br>Apply in a minimum of 50 gallons of water per acre. |
| Bananas<br>(including Plantain)   | 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 lbs. active ingredient (32 lbs. product) per acre per season. May be applied up to the day of harvest.  |
| Cranberries   | Fruit Rot  | 3.0-6.0   | 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.  |

15/28

| CROPS   | DISEASES  | RATE<br>LBS/ACRE   | DIRECTIONS   |
|---------|---|--|--|
| Grapes  | Black Rot<br>Bunch Rot<br>Phomopsis (Deadarm)<br>Downy Mildew         | 1.5-4.0 or<br>(0.375-1.0 lbs.<br>per 100 gal. in a<br>dilute spray)<br><br>1.5-2.5 or<br>(0.375-0.625<br>lbs. per 100 gal.<br>in a dilute spray) | East of the Rocky Mountains<br>Apply when shoots are 1/2 to 1 1/2<br>inches long. Continue at 7-10 day<br>intervals. Do not apply within 66<br>days of harvest. Do not apply more<br>than 19.2 lbs. active ingredient (25.6<br>lbs. product) per acre per season.<br>West of the Rocky Mountains<br>Apply when shoots are 1/2 to 1 1/2<br>inches long. Continue at 7-10 day<br>intervals. Do not apply within 66<br>days of harvest. Do not apply more<br>than 6.0 lbs. active ingredient (8 lbs.<br>product).<br><br>California---Do not apply after bloom.<br><br>For late season control of black rot,<br>deadarm, and downy mildew, the<br>use of other approved fungicides is<br>suggested. |
| Papayas | Anthrachnose<br>Phytophthora<br>Fruit Rot<br>Black Spot<br>Cercospora | 1.5-2.5 or<br>(0.375- 0.625<br>lbs. per 100 gal.<br>in a dilute spray)   | Apply first when disease pressure<br>threatens and continue on a 14-21<br>day interval. Do not apply more than<br>28 lbs. active ingredient (37.3 lbs.<br>product) per acre per season.<br>Applications can be made up to the<br>day of harvest.   |

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# MISCELLANEOUS

| CROPS                                     | DISEASES   | RATE<br>LBS/ACRE        | COMMENTS   |
|---|--|-------------------------|--|
| Christmas<br>Trees<br>(Conifer)           | Lophodermium needle<br>cast<br>Pine gall rust<br>Scirrhia brown spot | 2 to 4 lbs. per<br>acre | Begin application in spring or early<br>summer before infection occurs.<br>Repeat after heavy rains and at two-<br>week intervals as long as needed.   |
| Douglas Fir                               | Swiss needle cast  |                         |  |
| Asparagus<br>Crown<br>(Planting<br>Stock) | Crown Rot  | 1 lb per 100 gal.       | Place loosely packed crowns into a<br>burlap bag and soak, with gentle<br>agitation, in the fungicide solution for<br>5 minutes. Remove bag, drain well,<br>and plant crowns as soon as<br>possible.<br>A tank large enough to hold a single<br>burlap bag will treat 2 bags of<br>crowns. Clean dipping suspension<br>should then be prepared in a clean<br>tank. Dirty crowns should be pre-<br>washed to remove excess soil.<br><b>Do not use in California.</b>                        |
| Caprifig                                  | Assorted molds<br>Endosepsis (Fusarium)                              | 1 lb per 25 gal.        | Prepare mamme figs by making a<br>shallow cut through the eye and then<br>hand dividing to avoid wasp injury.<br>Submerge mamme figs in the<br>fungicide suspension for a minimum<br>of 15 minutes.<br>The fungicide suspension should be<br>stirred frequently to prevent settling<br>out. Fresh dipping solution should be<br>used after treating 4 or 5 batches of<br>figs. After treatment, figs should be<br>drained prior to placement in trees.<br><b>Do not use in California.</b> |

## SEED TREATMENT\*\*

Seeds to be treated should be cleaned and well cured prior to treatment. PENNCOZEB EG RAINCOTE must 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 EG RAINCOTE, which will impart an unnatural color to the seed.

Seeds/seed-pieces that have treated with this product that are then packaged or bagged for future use must contain the following labeling on the outside of the seed/seed-piece package or bag:

- When opening this bag or loading/pouring the treated seed/seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P, or HE filter.
- Treated Seed/Seed-Pieces – Do Not Use for Food, Feed, or Oil Purposes.



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- After the seeds/seed pieces have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: Once the seeds/seed pieces are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface.

| CROP                                    | DISEASES CONTROLLED  | RATE OF PENNCOZEB EG RAINCOTE PER APPLICATION |              | REMARKS<br>(Also refer to Directions for Use) | RESTRICTION   |
|---|--|---|--------------|---|---|
|   |  | OZ./BU.                                       | OZ./100 LBS. |   |   |
| Barley                                  | Covered smut<br>Damping-off<br>False loose smut<br>Seed rots<br>Seedling blights | 1.4 to 2.1                                    | 2.9 to 4.5   | For planter box treatment only                | Treated seed should be labeled, "Seed has been treated with PENNCOZEB EG RAINCOTE, a mancozeb product." |
| Corn (field)                            | Damping-off<br>Seed rots<br>Seedling blights                                     | 1.6 to 3.2                                    | 2.9 to 5.8   |   |   |
| Cotton<br>(acid delinted)<br>(reginned) | Damping-off<br>Seedling blights  |   | 3.2          |   |   |
|   | Damping-off<br>Seedling blights  |   | 6.4          |   |   |
| Flax                                    | Damping-off<br>Seed rots<br>Seedling blights                                     | 2.1 to 4.3                                    | 3.8 to 7.6   |   |   |
| Oats                                    | Damping-off<br>Seed rots<br>Seedling blights<br>Smuts                            | 1.4 to 2.1                                    | 4.3 to 6.7   | For planter box treatment only                |   |
| Peanuts (shelled)                       | Damping-off<br>Seed rots<br>Seedling blights                                     | 2.1 to 4.3                                    | 8.5 to 17.1  |   |   |

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| CROP                             | DISEASES<br>CONTROLLED   | RATE OF PENNCOZEB EG<br>RAINCOTE PER APPLICATION |              | REMARKS<br>(Also refer to<br>Directions for<br>Use)  | RESTRICTION   |
|----------------------------------|--|--|--------------|--|---|
|                                  |  | OZ./BU.  | OZ./100 LBS. |  |   |
| Potato<br>Seedpiece<br>Treatment | Fusarium Seed<br>Piece<br>Decay<br>Seedborne<br>Common<br>Scab         |  |              | Dip whole or<br>cut seed<br>pieces in<br>mixture of 1<br>1/4 lbs. of<br>product per<br>50 gallons of<br>water, drain<br>and plant<br>immediately.<br>If seed<br>pieces are to<br>be held<br>before<br>planting,<br>spread out to<br>dry in a cool<br>place. Do<br>not use<br>treated seed<br>pieces for<br>food or feed<br>purposes. | Treated seed<br>should be<br>labeled, "Seed<br>has been<br>treated with<br>PENNCOZEB<br>EG RAINCOTE,<br>a mancozeb<br>product." |
| Rice                             | Damping-off<br>Seed rots<br>Seedling blights                           |  | 2.1 to 4.3   | Apply before,<br>during and<br>after soaking<br>in water   |   |
| Rye                              | Bunt<br>Damping-off<br>Seed rots<br>Seedling blights                   | 1.4 to 2.1                                       | 2.5 to 3.8   | For planter<br>box<br>treatment<br>only  |   |
| Safflower                        | Seedborne rust<br>(Puccinia<br>carthami)                               |  | 2.1          |  |   |
| Sorghum                          | Covered kernel<br>smut<br>Damping-off<br>Seed rots<br>Seedling blights | 1.6 to 2.7                                       | 2.9 to 4.8   |  |   |
| Tomatoes                         | Damping-off<br>Seed rots<br>Seedling blights                           |  | 8.5          |  |   |
|                                  |  |  |              |  |   |

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| CROP  | DISEASES CONTROLLED                                  | RATE OF PENNCOZEB EG RAINCOTE PER APPLICATION |              | REMARKS<br>(Also refer to Directions for Use) | RESTRICTION   |
|-------|--|---|--------------|---|---|
|       |  | OZ./BU.                                       | OZ./100 LBS. |   |   |
| Wheat | Bunt<br>Damping-off<br>Seed rots<br>Seedling blights | 1.4 to 2.1                                    | 2.3 to 3.5   | For planter box treatment only                | Treated seed should be labeled, "Seed has been treated with PENNCOZEB EG RAINCOTE, a mancozeb product." |

\*\* Not for this use in California

### GENERAL INFORMATION FOR TURF & ORNAMENTAL USES

PENNCOZEB EG RAINCOTE is an extruded 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. When used according to directions, it provides very high fungicidal activity and can be safely used on both turf grasses and certain ornamentals.

PENNCOZEB EG RAINCOTE is a broad-spectrum protectant fungicide, which provides control of most common turf grass diseases and it is also effective in controlling many fungal diseases of certain ornamentals.

Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can generally be accomplished with lower rates and less frequent fungicide applications. Once diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective program for maximum product performance.

### INSTRUCTIONS FOR APPLICATION FOR TURF & ORNAMENTAL USES

To mix: Slowly add PENNCOZEB EG RAINCOTE fungicide into half-filled spray tank while the agitator is running to form a well-mixed suspension. If tank-mixing with other materials, add soluble materials (those that form a true solution) first. Then add emulsifiable concentrates (those that form an emulsion in water) in that order after the PENNCOZEB EG RAINCOTE. Wettable powder products may be mixed at the same time as PENNCOZEB EG RAINCOTE. PENNCOZEB EG RAINCOTE is compatible with most commonly used pesticides. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures.

For air application: Use at rate indicated in sufficient water for thorough coverage or a minimum of 2 gallons per acre. Use a spreader-sticker at label-recommended rates for the desired use as needed. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Follow similar mixing order instructions as stated above for best results. Continuous agitation is required to keep the product in suspension.

### TURF- COMMERCIAL SOD FARMS- Not for use by homeowners

#### Not for use in California

Start applications when grass greens-up in the spring or when disease first appears, and repeat at 10- to 14-day intervals or until disease is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. Apply in sufficient water to provide adequate coverage. Harvesting of treated turf is prohibited until 72 hours following application. A maximum of 4 applications per year and a maximum rate of 17.4 lb ai/A per application may be applied.

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**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 tested on all varieties of every turfgrass species or under all possible growing conditions. If user is unfamiliar with the performance of PENNCOZEB EG RAINCOTE 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<br>oz/1000 Sq. Ft. | Remarks-<br>(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<br>Fusarium blight<br>Red thread<br>slime mold | 4 to 8                                  |   |   |
|                  | Algae  | 6                                       |   |   |
|                  | Dollar spot  | 6 to 8                                  |   |   |
|                  | Rhizoctonia brown patch                                    | 4                                       | Apply on a 10-day spray schedule  |   |
|                  | Pythium blight   | 8                                       | Apply at 10-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.  |   |

## COMMERCIAL (NON-SOD FARM) TURF APPLICATIONS

### Not for Use by Homeowners

For use on all fine turf applications such as sod farms, golf courses (cool season and warm season grasses, such as, Bent, Bermuda, Bluegrass, Fescue, Rye, St. Augustine and Zoysia types or their mixtures), industrial and commercial lawns and other similar non-residential areas. Not for use on residential lawns. Not for use on athletic fields. PENNCOZEB EG RAINCOTE is not phytotoxic to any of the above-mentioned grasses when used in accordance with the label. Refer to General Use instructions except when more specific instructions are given for individual crops or diseases.

#### GOLF COURSES

For cool season grasses:

- Greens, tees and aprons – limit to a maximum of 5 applications per year at a maximum application rate of 17.4 lb ai/A per application.

- Fairways – limit to a maximum of 4 applications per year at a maximum application rate of 17.4 lb ai/A per application.

For warm season grasses:

- Greens, tees, and aprons – limit to a maximum of 4 applications per year at a maximum application rate of 17.4 lb ai/A per application.
- Fairways – limit to a maximum of 3 applications per year at a maximum application rate of 17.4 lb ai/A per application.

A minimum of a 10-day interval between applications is required.

#### OTHER TURF (NON-SOD FARM) APPLICATIONS

Limit to a maximum of 4 applications per year and a maximum single application rate of 17.4 lb ai/A per application.

A minimum of a 10-day interval between applications is required.

**General Use:** PENNCOZEB EG RAINCOTE is to be used for the prevention and control of the diseases mentioned below. Start preventive applications when conditions for disease occurrence are favorable or when disease first appears and repeat at 10-14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. For best results, use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing twelve hours after application. Apply recommended amounts in sufficient water to obtain thorough coverage, 2-4 gallons per 1,000 square feet suggested for mechanical applications, smaller volumes are acceptable for hand applications and with proper equipment calibration. When treating golf greens, always treat aprons and approaches.

Do not use on pasture or range grasses. Do not graze treated areas. Do not feed clippings to livestock. Do not use on grass if grown for seed.

| Disease(s) Controlled  | Rate Oz/1,000 Sq Ft |
|--|---------------------|
| Copper Spot, Red Thread, Fusarium Blight ( <i>F. roseum</i> ), Slime Mold  | 4-8                 |
| Helminthosporium, Melting Out, Rhizoctonia Brown Patch, Rust   | 4                   |
| Pythium Blight, Damping Off  | 8                   |
| Note: Apply at 10-day intervals or more frequently if conditions are especially favorable for disease development. |                     |
| Dollar Spot  | 6-8                 |
| Algae  | 6                   |
| Pink Snow Mold ( <i>Microdochium nivale</i> )  | 6-8                 |
| Note: Apply at 2-week intervals during winter snow-free periods.   |                     |
| Downy Mildew   | 6-8                 |

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## HORTICULTURAL APPLICATIONS

### FIELD, NURSERY, GREENHOUSE and LANDSCAPE

**General Use:** PENNCOZEB EG RAINCOTE provides excellent protective activity and is most effective when applied prior to infection periods.

| CROP   | DISEASES   | REMARKS   |
|--|--|---|
| <b>ORNAMENTALS<br/>COMMERCIAL AND<br/>HOMEGARDEN USE</b> |  | Refer to General Use Instructions except when more specific directions are given for individual crops and diseases.   |
| CUT FLOWERS AND GREENHOUSE GROWN ORNAMENTALS             |  | Limit of 20 applications per year.  |
| GENERAL USE INSTRUCTIONS                                 |  | Apply 1½ lb. PENNCOZEB EG RAINCOTE per 100 gallons of water in full coverage sprays. To improve performance, add 2-4 oz of an effective spreader-sticker per 100 gallons of spray. Begin spraying when plants are growing, well leafed out or at first sign of disease. Apply at 7-10 day intervals throughout the season as disease development conditions persist and as the plants grow, or follow State Extension Service recommendations for specific disease control practices.<br><b>Do not use edible portions of any listed plant for food or feed purposes.</b> |
| African Violet   | Botrytis blight  |   |
| Ageratum   | Botrytis blight<br>Rust  |   |
| Almond (ornamental)                                      | Leaf spot  |   |
| Alyssum  | Leaf spot  |   |
| Anthurium  | Anthrachnose,<br>spadix rot  |   |
| Apple (ornamental) –<br><i>Malus</i> sp                  | Fabrea Leaf Spot<br>Rust<br>Scab   |   |
| Arborvitae   | Cercospora Blight  |   |
| Areca Palm   | Leaf Spot  |   |
| Ash, white   | Anthrachnose<br>Cylindrosporium Leaf<br>Spot                               |   |
| Ash, Mountain  | Entomosporium Leaf<br>Spot<br>Guignardia Leaf Blotch                       |   |
| Aster  | Leaf Spot  |   |
| Aster, perennial   | Puccinia Rusts   |   |
| Aucuba, japonica   | Alternaria Leaf Spot<br>Anthrachnose                                       |   |
| Azalea*  | Cylindrocladium rot<br>Petal Blight<br>Phytophthora Twig and<br>Bud Blight | Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.  |
| Begonia  | Botrytis Blight  |   |
| Bougainvillea  | Leaf Spot  |   |

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| Boxwood                    | Leaf Spot   |   |
|----------------------------|---|---|
| CROP                       | DISEASES  | REMARKS   |
| Buffaloberry               | Cylindosporium Leaf Spot  |   |
| Camellia*                  | Petal Blight  | Refer to azaleas.   |
| Carnation                  | Rust<br>Septoria Leaf Spot  |   |
| Cedar, Red                 | Cercospora Blight<br>Phomopsis Blight                             |   |
| Chrysanthemum*             | Ascochyta Blight<br>Botrytis Petal Spot<br>Rust                   | Apply at 1 to 2 lbs. per 100 gallons or 1½ level tablespoons per gallon in full coverage spray. Apply twice weekly during the blooming season.  |
| Cockscomb                  | Alternaria Leaf Spot  |   |
| Conifers (Christmas Trees) | Lophodermium Needle Cast<br>Pine Gall Rust<br>Scirrhia Brown Spot | Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals as long as needed.  |
| Cordyline                  | Cercospora Leaf Spot  |   |
| Crabapple (ornamental)     | Cedar Apple Rust<br>Scab<br>Sphaeropsis Leaf Spot                 |   |
| Cypress, Arizona           | Cercospora Blight<br>Monochaetia canker                           |   |
| Dahlia                     | Botrytis Blight   |   |
| Delphinium                 | Botrytis Blight   |   |
| Dieffenbachia              | Leptosphaeria Brown Spot  |   |
| Dogwood, flowering*        | Anthracnose<br>Elsinoe Leaf Spot<br>Septoria Leaf Spot            | Apply when buds begin to open, when bracts have fallen, 4 weeks later, and again in late summer after flower buds for next season have formed   |
| Dracaena                   | Fusarium Leaf Spot  |   |
| Elm                        | Black Leaf Spot   |   |
| Euonymus                   | Anthracnose   |   |
| Fatsia                     | Anthracnose   |   |
| Ferns*                     | Rhizoctonia Blight  |   |
| Ficus                      | Cercospora Leaf Spot  |   |
| Fig (ornamental)           | Cylindrocladium Leaf Spot   |   |
| Firethorn                  | Fusicladium Scab  |   |
| Fir, Douglas               | Swiss Needle Cast   |   |
| Fir, Fraser                | Swiss Needle Cast   |   |
| Fuchsia                    | Botrytis Blight<br>Rust   |   |
| Geranium                   | Rust  |   |
| Gladiolus                  | Curvularia Leaf Spot<br>Botrytis Blossom Blight                   | On flower spikes, use at ¾ lb. per 100 gallons. Make weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. |
| Gloxinia                   | Botrytis Blight   |   |
| Gypsophila                 | Botrytis Blight   |   |

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| CROP               | DISEASES  | REMARKS   |
|--------------------|---|---|
| Hawthorn           | Cedar Apple Rust<br>Fabraea Leaf Spot<br>Frogeye Leaf Spot<br>Hawthorn Rust<br>Scab |   |
| Hickory            | Gnomonia Leaf Spot  |   |
| Holly              | Purple Spot   |   |
| Hollyhock          | Anthrachnose<br>Cercospora Leaf Spot<br>Puccinia Rust                               |   |
| Honeysuckle        | Herpobasidium Blight  |   |
| Horsechestnut      | Alternaria Leaf Spot<br>Guignardia Leaf Blotch                                      |   |
| Hydrangea          | Botrytis Blight<br>Cercospora Leaf Spot   |   |
| Impatiens          | Botrytis Blight   |   |
| Iris               | Didymellina Leaf Spot<br>Mycoshaerella Leaf Spot<br>Mystrosporium Ink Spot          |   |
| Juniper            | Phomopsis Blight  |   |
| Larkspur           | Rust  |   |
| Laurel, Mountain   | Cercospora Leaf Spot<br>Petal Blight  | Refer to Azaleas  |
| Ligustrum          | Cercospora Leaf Spot  |   |
| Lily               | Botrytis Blight   |   |
| Magnolia           | Gloeosporium Leaf Spot  |   |
| Maple              | Alternaria Leaf Spot<br>Phyllosticta Leaf Spot                                      | Do not use on Sugar maples intended for the production of maple syrup.  |
| Narcissus          | Botrytis Blight (fire)<br>Smoulder  |   |
| Oak                | Actinopelte Leaf Spot<br>Taphrina Leaf Blister                                      |   |
| Orchids            | Botrytis Blossom Blight   |   |
| Oxalis             | Rust  |   |
| Pansy              | Anthrachnose  |   |
| Pear (ornamental)  | Fabraea Leaf Spot<br>Rust<br>Scab   |   |
| Peony*             | Phythophthora Blight<br>Botritys Blight   | Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts. |
| Peperomia          | Cercospora Leaf Spot  |   |
| Petunia            | Botrytis Blight   |   |
| Philodendron       | Dactylaria Leaf Spot<br>Phytophthora Leaf Spot                                      |   |
| Phlox              | Leaf Spot   |   |
| Photinia (Red Tip) | Entomosporium Leaf Spot   |   |
| Pine, Australia    | Cyclaneusma Needle Cast   |   |



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| CROP                | DISEASES   | REMARKS   |
|---------------------|--|---|
| Pine Scotch         | Cyclaneusma Needle Cast<br>Gall Rust                       |   |
| Pittosporium        | Alternaria Leaf Spot                                       |   |
| Pleomele            | Fusarium Leaf Spot   |   |
| Poinsettia          | Sphaceloma Scab  |   |
| Poplar              | Rust   |   |
| Primrose            | Botrytis Blight  |   |
| Protea              | Botrytis Blight  |   |
| Quince – ornamental | Fabraea Leaf Spot<br>Rust<br>Scab                          |   |
| Rhododendron*       | Cercospora Leaf Spot<br>Discosia Leaf Spot<br>Petal Blight | Refer to azalea.                                      |
| Rose                | Black Spot<br>Cercospora Leaf Spot<br>Rust                 |   |
| Rosemary            | Rhizoctonia<br>Aerial Blight                               |   |
| Schefflera          | Alternaria Blight  |   |
| Skunkbush, sumac    | Cylindrosporium Leaf Spot                                  |   |
| Snapdragons         | Rust   |   |
| Spathaphylum        | Myrothecium Leaf Spot                                      |   |
| Statice             | Cercospora Frogeye   |   |
| Strawflower         | Rust   |   |
| Syngonium           | Cephalosporium Leaf Spot                                   |   |
| Thorn Apple         | Rust   |   |
| Tulip               | Botrytis Blight (fire)                                     |   |
| Venus Flytrap       | Anthracnose  |   |
| Viburnum            | Downy Mildew<br>Ramularia Leaf Spot                        |   |
| Walnut              | Anthracnose  | Do not use treated walnuts for food or feed purposes. |
| Zinnia              | Leaf Blight  |   |

\*See "Special Instructions" for additional information on use with selected plant material. This product is not recommended for the treatment of Marigolds due to highly variable plant responses.

**Note:** The Directions for Use of this product and the list of ornamental plants given on this label reflect cumulative inputs from both field use experience and product testing programs. However, it is impossible to test this product on all ornamental plant species and cultivars. Before treating any ornamental plant for prevention of infection from a listed pathogen, a preliminary trial is suggested on a small scale before a full treatment is applied. Wait 5-7 days after treatment to evaluate results.

**Special Instructions – Follow the Directions listed below for the specified plant and pathogen.**

- **Azaleas, Camellias, Rhododendron** – Petal Blight: Spray 2-3 times a week while flowers are opening. Direct spray into flowers and spray ground under plants thoroughly.
- **Chrysanthemum** – Botrytis Petal Spot: Apply in full coverage spray twice weekly during the blooming season.
- **Dogwood, flowering** – Anthracnose: Apply when buds begin to open, when bracts have fallen, 4

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weeks later, and again in late summer after the flower buds for next season are formed.

- **Fern** – Anthracnose: Apply 2-3 times weekly as needed through chemigation or air blast spray to thoroughly wet the entire plant canopy. PENNCOZEB EG RAINCOTE may be tank mixed with other systemic products as recommended by the local extension services for enhanced control.
- **Peony** – Phytophthora Blight, Botrytis Blight: Apply in early spring and early fall, drenching soil around plants as well as foliage. Promptly destroy all infected plant parts.

## 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 non-uniform 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.

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 EG RAINCOTE 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

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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 EG RAINCOTE 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 EG RAINCOTE 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 EG RAINCOTE 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 EG RAINCOTE into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB EG RAINCOTE 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 EG RAINCOTE 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

#### **Do not contaminate water, food, or feed by storage or disposal.**

**Pesticide Storage:** 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:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** 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.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials, resistant strains or other influencing factors in the use of the product. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Cerexagri, Inc., Manufacturer and Seller harmless for any claims relating to such factors. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CEREXAGRI, INC. AND MANUFACTURER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL.

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