

70506-182

7/24/2012

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U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

70506-182

Date of Issuance

JUL 24 2012

Terms of Issuance
Unconditional

Name of Pesticide Product

Penncozeb® Ornamental Fungicide

NOTICE OF PESTICIDE

XX Registration

XX Reregistration

(under FIFRA as amended)

Name and Address of Registrant (include ZIP Code)

United Phosphorus, Inc
630 Freedom Business Center
King of Prussia, PA 19406

Note 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

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

EPA received a label amendment request submitted by email on June 8, 2012 EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act as amended With this accepted labeling all requirements set forth in the Reregistration Eligibility Decision for Mancozeb have been satisfied Therefore, EPA reregisters the product listed above This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide Fungicide, and Rodenticide Act, as amended Reregistration under this section does not eliminate the need for continual reassessment of pesticides EPA may require submission of data at any time to maintain the registration of your product

Submit one (1) copy of final printed labeling Amended labeling will supersede all previously accepted labels A copy of your label stamped Accepted is enclosed for your records Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label

If you have any questions or comments regarding this letter please contact Heather Garvie at (703) 308 0034 or via e mail at garvie.heather@epa.gov

Signature of Approving Official

Mary L Waller

Mary Waller
Product Manager (Team 21)
Fungicide Branch
Registration Division

Date

7/24/2012

PENNCOZEB® ORNAMENTAL FUNGICIDE

An 80% Coordination Product of Manganese and Zinc
and Ethylenebisdithiocarbamate

ACTIVE INGREDIENT

Mancozeb A coordination product of zinc ion and manganese ethylene
bisdithiocarbamate 80 0%

Manganese++ 16 0%

Zinc++ 2 0%

Ethylenebisdithiocarbamate ion (C₄H₆N₂S₄) 62 0%

OTHER INGREDIENTS

20 0%

TOTAL

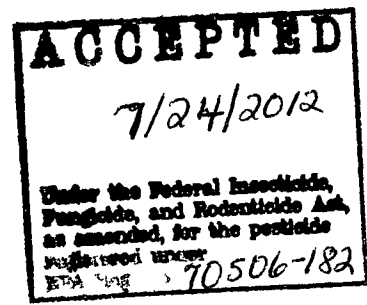
100 0%

EPA Registration No 70506-182

EPA Establishment No _____

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)



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FIRST AID

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, and then continue rinsing the eye
- Call a poison control center or doctor for treatment advice

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 treatment advice

If swallowed

- Call a 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

EMERGENCY TELEPHONE NUMBERS
CHEMTREC (800) 424-9300
Rocky Mountain Poison Control Center
(866) 673-6671

Net Contents _____

United Phosphorus, Inc
630 Freedom Business Center,
Suite 402
King of Prussia, PA 19406
1-800-438-6071

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if absorbed through skin Causes moderate eye injury Avoid contact with eyes, skin, or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 and
- Shoes and socks

In addition to the PPE listed above, all handlers except pilots must also wear

- 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

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's concentrate Do not reuse them

See Engineering Controls for additional requirements

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 are prohibited Flagging to support aerial application is limited to use of Global Positioning System (GPS) or mechanical flaggers

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240 (d) (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/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

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• 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 aquatic organisms 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 Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate

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

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
- 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

Do not enter or allow others to enter into treated areas until sprays have dried

PRODUCT INFORMATION

PENNCOZEB ORNAMENTAL FUNGICIDE is a wettable powder containing a coordination product of zinc ion and manganese ethylenebis- dithiocarbamate and is labeled 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 certain ornamentals, providing control of major fungus diseases.

Diseases of ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable 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

To mix, slowly sift PENNCOZEB ORNAMENTAL FUNGICIDE into spray tank while it is being filled and the agitator is running. Add insecticide and nutritional sprays last. PENNCOZEB ORNAMENTAL FUNGICIDE is compatible with most commonly used pesticides. Read and observe the precautionary statements and other information appearing on product labels used in mixtures.

FOR AERIAL APPLICATION use at rate indicated in sufficient water for thorough coverage or a minimum of 2 gallons per acre.

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.

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CROP	DISEASES	REMARKS
ORNAMENTALS COMMERCIAL AND HOME USE		Refer to Product Use Instructions except when more specific directions are given for individual crops or diseases
PRODUCT USE INSTRUCTIONS		Apply the equivalent of 1½ lbs PENNCOZEB ORNAMENTAL FUNGICIDE per 100 gallons of water (1½ level tablespoons per gallon) in full coverage spray To improve performance add 2 to 4 oz spreader sticker per 100 gallons of spray Cut Flowers and Greenhouse Ornamentals Limit of 20 applications per year Begin spraying when plants are well leafed out or at first sign of disease and apply at 7 to 10 day intervals throughout the season For additional information contact your state Extension Service
Azaleas	Petal Blight	Spray 2 to 3 times a week while flowers are opening Direct spray into flowers and spray ground under bushes thoroughly
Camellias	Petal Blight	Refer to azaleas
Carnation	Leaf Spot	
Chrysanthemum	Botrytis Petal Spot	Apply at 1 to 2 lbs per 100 gallons or 1½ level table spoons per gallon in full coverage spray Apply twice weekly during the blooming season
Crabapple (ornamental)	Scab Cedar-Apple Rust	Do not use treated fruit for food or feed
Dahlia	Botrytis Blight	
Dogwood Flowering	Anthraco nose	Apply when buds begin to open when bracts have fallen 4 weeks later and again in late summer after flower buds for next season are formed
Gladiolus	Curvularia Leaf Spot 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
Holly	Purple Spot	
Honeysuckle	Herpobasidium Blight	
Iris	Leaf Spot	
Lily	Botrytis Blight	
Pansy	Anthraco nose	
Peony	Phytophthora Blight Botrytis Blight	Apply in early spring and early fall drenching soil around plants as well as the foliage Promptly destroy all infected plant parts
Rhododendron	Petal Blight	Refer to azalea
Roses	Black Spot	
Snapdragon	Rust	
Tulip	Botrytis Blight (fire)	
Zinnia	Leaf Blight	

CHEMIGATION NOT FOR THIS USE IN CALIFORNIA

PRODUCT 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 only through systems containing anti-siphon 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 may be applied in conjunction with chemically neutral liquid fertilizers

Application in conjunction with highly alkaline fertilizers such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided

Check local restrictions and requirements regarding sprinkler irrigation applications as they may vary from state to state

SPRAY PREPARATION

Remove scale pesticide residues and other foreign matter from the chemical tank and entire injector system. Flush with clean water

Prepare a suspension of PENNCOZEB in a mix tank. Fill the tank with $\frac{1}{2}$ or $\frac{3}{4}$ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCOZEB and then the remaining volume of water

APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of PENNCOZEB into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCOZEB should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing

NOTE When treatment with PENNCOZEB has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature and 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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 Nonrefillable container. Do not reuse or refill this container. 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.

**IMPORTANT INFORMATION
READ BEFORE USING PRODUCT**

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests and must be followed carefully. It is impossible to eliminate all risks 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, or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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