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5481-419

File  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAR 27 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

H. R. McLane  
AMVAC CHEMICAL CORP.  
4100 East Washington Blvd  
Los Angeles, CA 90023

Subject: Label Amendment Submission of 12/07/93 in Response to PR Notice 93-7  
EPA Reg. No. 5481-419  
PCNB 75W TURF AND ORNAMENTAL SOIL FUNGICIDE

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



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contains at least 50% recycled fiber

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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

**AND**

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

H.R. McLane  
AMVAC CHEMICAL CORP  
4100 EAST WASHINGTON BLVD  
LOS ANGELES CA 90023

Comment for: EPA Reg Nr.5481-419  
PCNB 75W TURF AND ORNAMENTAL SOIL FUNGICIDE

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The respirator requirement for "applicators and other handlers" in the Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). For exposures in enclosed areas, a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)." The exact location is shown in Sections A and B on Part I of the product Worksheet in Supplement Three-A to PR Notice 93-7.

Remove the statement "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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval."

# PCNB 75W Turf and Ornamental Soil Fungicide

FOR PREVENTION AND CONTROL OF SOIL BORNE DISEASES WHICH ATTACK TURF GRASS, NURSERY AND GREENHOUSE PLANTS, FIELD GROWN ORNAMENTALS, BEDDING AND FLOWERING PLANTS, HERBACEOUS AND WOODY ORNAMENTALS.

ACTIVE INGREDIENT:  
 Pentachloronitrobenzene (PCNB) - 75.0%  
 INERT INGREDIENTS: - 25.0%  
 TOTAL 100.0%  
 EPA REG. NO. 5481- EPA EST NO. 5481-CA-1

ACCEPTED  
 with COMMENTS  
 in EPA Letter Dated:

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MAR 27 1994

## KEEP OUT OF REACH OF CHILDREN CAUTION

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5481-CA-1

### STATEMENTS OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists. **IF ON SKIN:** Remove contaminated clothing and wash affected area with soap and warm water. Get medical attention if irritation persists. **IF INHALED:** Remove victim to fresh air and give artificial respiration if indicated.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid inhaling dust. May cause skin irritation. Wash hands and face thoroughly after using and before eating or smoking. Avoid contact with skin. The following protective clothing is required during mixing/loading operations: An approved respirator should be worn by professional applicators who frequently apply this product, gloves, long-sleeved shirt, long pants, socks and shoes. Thoroughly wash all contaminated clothing before reuse. Do not contaminate feed or foodstuffs.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. This product is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Apply this product only as specified on this label. Do not apply directly adjacent to potable water supplies.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not plant root crops in PCNB treated fields within 12 months of broadcast and banding applications unless PCNB is registered for use on those crops.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or dilute solution is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. **CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

### GENERAL INFORMATION

This product is a wettable powder and is recommended for use in water. When mixed, make sure that the water solution is continuously agitated to give uniform fungicide coverage. PCNB 75W is a preventive fungicide recommended for control of certain soil borne diseases as listed on this label and ornamental crops therefore best disease control results when applied as a preventive program. Carefully follow the recommended rates and the application remarks.

### FOR TURFGRASS

Use as a fungicide in the prevention and control of the listed soil borne diseases which attack turfgrass on golf courses, sod farms, home lawns, institutional, ornamental, and recreational areas where fine turf is under a maintenance program.

#### DISEASES CONTROLLED

- Brown Patch (*Rhizoctonia solani*)
  - Leaf Spot (*Falkenbergiella* spp.)
  - Dollar Spot (*Sclerotinia homocarpa*)
  - Gray Snow Mold (*Typhula* spp.)
  - Pink Snow Mold (*Fusarium nivale*)
- \* Do not use in California.

For best results use PCNB 75W as a preventive application before diseases appear, or apply at the first sign of the infection. After application the treated areas should be watered to wash the fungicide down to the soil level. If heavy rainfall or flooding occurs after treatment, or if disease is severe or reappears, treat area again. Follow the rates as outlined below for the respective disease.

Disease/Foil	Amount water per 1,000 sq ft	How and When to Apply
Brown Patch ( <i>Rhizoctonia solani</i> ) St. Augustine, Bermudagrass and similar warm season grasses	1 lb / 10-15 Gals	Apply once in spring or fall or when disease appears. If it occurs or reappears, retreat 3 to 4 weeks later.
Dichondra	1 lb / 40 Gals	Treat as above.
Bermudagrass, Fescue, Bent and similar cool season grasses	3 lb or 7.5 Gals	Apply at 1st sign of disease. Repeat every 7-10 days during warm damp weather.
Falkenbergiella spp. Leaf Spot Dollar Spot ( <i>Sclerotinia homocarpa</i> )	7 lb or 7.5-10 Gals	For preventive apply in spring or fall of each year. If disease is present apply at 10 oz. rate on sod as possible. If disease is present retreat 3 to 4 weeks later.
Gray Snow Mold ( <i>Typhula</i> spp.) Pink Snow Mold ( <i>Fusarium nivale</i> )	8 oz / 7.5-10 Gals	1st treatment should be made prior to first snow fall.

Do not graze treated areas or feed grass clippings to livestock. Under certain growing conditions, a temporary discoloration of the grass occasionally may occur. This causes no harm and will disappear in a short time.

**NOTE:** This product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes risk of any such use.

### ORNAMENTALS

Solutions of PCNB 75W and water must be mixed with the soil as a drench treatment for protection against the listed diseases on nursery, greenhouse, field grown and established plants. A preliminary trial is suggested first before a full treatment is given to any plant species not listed in these directions.

#### DISEASES CONTROLLED

- |                   |                                 |
|-------------------|---------------------------------|
| Common Name       | Fungal Name                     |
| Root and stem rot | <i>Rhizoctonia</i> spp.         |
| Bulb storage rot  | <i>Botrytis</i> spp.            |
| Neck dry rot      | <i>Sclerotinia gladioli</i>     |
| Bulb dry rot      | <i>Sclerotinia gladioli</i>     |
| Stem rot          | <i>Dactyloctenium aegyptium</i> |
| Leaf blight       | <i>Ophiostoma azaleae</i>       |
| Bulb and stem rot | <i>Sclerotinia rotlet</i>       |
| Fusarium blight   | <i>Sclerotinia carnationae</i>  |
| Crown rot         | <i>Phytophthora rotlet</i>      |
| Neck rot          | <i>Sclerotinia sclerotiorum</i> |

### NURSERY & GREENHOUSE

For *Rhizoctonia* control apply as a soil drench at time of seeding and/or transplanting. Tropical foliage plants: *Aluja*, *Aphelandra*, *Dialium*, *Diarrhena*, *Diarrhena*, *Ficus*, *Fittoua*, *Gynura*, *Hoya*, *Peperomia*, *Polka*, *Schefflera*, *Syngonium*, *Tradescantia* and similar tropical foliage plants. Mix 4 to 8 oz. in 100 gallons water and apply to 400-800 sq. ft. of bed or bench area. Coverage: For soil depths of 4 inches or less, apply 100 gallons to 800 sq. ft. For soil depths of more than 4 inches apply 100 gallons to 400 sq. ft. One repeat application can be made 4 to 6 weeks later, if necessary. Do not apply to *Phodendron* or *Pilea* since injury may occur.

#### Bedding and Flowering Plants

Carnation, Chrysanthemum, Dahlia, Geranium, Marigold, Petunia, Poinsettia, Portulaca, Salvia, Vinca, Zinnia and similar plants. Use 4 oz. with 100 gallons of water and apply to 800 sq. ft. of flat or bench area. Apply at seeding or transplanting time.

#### Herbaceous and Woody Plants

Herbaceous Plants: *Kalanchoe*, Lily and similar plants. Woody Plants: *Azalea*, *Boxwood*, *English Ivy*, *Holly*, *Juniper*, *Pine*, *Rhododendron* and similar plants. Use 4 to 8 oz. with 100 gallons of water and apply to 400-800 sq. ft. of bed or bench area.

#### FIELD GROWN

### ORNAMENTAL CROPS

#### HOW TO MIX AND APPLY

Mix the following amounts of PCNB 75W in sufficient water and apply before planting to give uniform ground coverage. Incorporate the spray/drench solution to depth of soil as indicated.

#### AS A PRE-PLANT BROADCAST TREATMENT

For *Rhizoctonia* Root Rot on Easter Lilies, and for Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips use 3 1/4 to 8 1/2 lbs. per 1,000 sq. ft. Thoroughly incorporate to a depth of 0 to 7 inches. Use the lower rate for light soils; the higher rate for heavy soils.

For Bulb Rot and Stem Rot (*Sclerotinia rotlet*) on Dutch Iris use 3 1/4 to 4 1/2 lbs. per 1,000 sq. ft. Apply prior to planting. Thoroughly incorporate solution to depth of 2 to 3 inches.

For Neck or Bulb Dry Rot (*Stomatium* or *Sclerotinia gladioli*) on Gladiolus use 3 2/3 lbs. per 1,000 sq. ft. Apply prior to planting. Thoroughly incorporate to depth of 4 to 6 inches. Bulbs may be planted immediately after solution is incorporated.

#### BROADCAST TREATMENT (Cont.)

For Stem Rot (*Rhizoctonia*) on Calendula, Lupinus, Snapdragon and Sweet Pea use 3 1/2 lbs. per 1,000 sq. ft. Apply prior to planting. Thoroughly incorporate to depth of 4 inches.

For *Rhizoctonia* Needle Blight on Southern Pine Seedlings use 50 lbs. per acre. Mix and apply in 100 gallons of water to give uniform ground coverage. An additional 1/2 inch of water per acre should be applied by irrigation prior to planting. Seed may be planted immediately after irrigation or within one week of this date.

#### AS A BAND TREATMENT

For Neck or Bulb Dry Rot (*Stomatium* or *Sclerotinia gladioli*) on Gladiolus apply 5 1/2 lbs. per 1,000 linear feet of row as a 12 inch band centered on the row at planting time. Incorporate to depth of 4 inches. Bulbs may be planted immediately after incorporation.

For Bulb Rot and Stem Rot (*Sclerotinia rotlet*) on Dutch Iris use 1/2 lb. per 1,000 linear feet of row as a 12 inch band centered on the row at planting time. Follow with 3 additional applications at the same rate at 15 day intervals.

#### AS AN IN-FURROW TREATMENT

AT PLANTING TIME  
 For control of *Rhizoctonia* Root Rot on Easter Lilies, and for Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips mix 4 1/2 to 8 1/2 lbs. in 5 to 10 gallons of water and apply per 1,000 linear feet of row. Directly spray into open furrow to thoroughly cover entire row and bulbs (if in furrow in normal manner. Use lower rate for lighter soils and higher rate for heavier soils. For Black Rot control, use high rate.

### GROUND SPRAY

#### for ESTABLISHED

### AZALEAS and CAMELLIAS

For Azalea Petal Blight (*Ophiostoma azaleae*) on Azaleas and Camellia Flower Blight on Camellias use 1 lb. per 150 sq. ft. Mix and apply in sufficient water (5 to 10 gallons per 100 sq. ft.) to give uniform coverage to soil beneath bushes and in the plant bed. Begin application prior to opening of buds and repeat every 3 to 4 weeks during bloom season.

### DIP TREATMENT for BULBS and DORMANT ROSES

Use before planting or storing. It is important to maintain continuous circulation of dip solution to assure uniform application of fungicide. Add 1% "Sticker" to solution. Utilize wire mesh for dipping and drain boards to return excess solution to dip tank. Dispose of unused dip solution according to "Storage and Disposal" and observe use of protective clothing (gloves etc.) as listed under "Hazards to Humans"; both sections found on this label. For control of Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips dip bulbs for 5 minutes in a solution containing 2 lbs. PCNB 75W in 3.2 gallons of water. For Root Rot (*Rhizoctonia*) of Easter Lilies dip in a solution containing 4 to 6 lbs. PCNB 75W in 100 gallons of water for a period of 5 to 15 minutes. For Botrytis Storage Rot on Roses: Dip or spray dormant plants before packaging or storage, with a solution of 2 lbs. PCNB 75W in 100 gals. of water.

NET WEIGHT 50 POUNDS

AMVAC CHEMICAL CORPORATION  
 4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90023

BEST AVAILABLE COPY

# PCNB 75 W

## Turf and Ornamental Soil Fungicide

FOR PREVENTION AND CONTROL OF SOIL-BORNE DISEASES WHICH ATTACK TURFGRASS, NURSERY AND GREENHOUSE PLANTS, FIELD GROWN ORNAMENTALS, BEDDING AND FLOWERING PLANTS, HERBACEOUS AND WOODY ORNAMENTALS.

ACCEPTED  
with COMMENTS  
EPA Letter Dated  
3/17/83

EPA Registration No. 5481-419

ACTIVE INGREDIENT  
Pentachloronitrobenzene (PCNB) . . . 75.0%  
INERT INGREDIENTS . . . 25.0%  
TOTAL . . . 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA Establishment No. 5481-CA-1

**STATEMENTS OF PRACTICAL TREATMENT**  
IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving 1/2 cup of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists. **IF ON SKIN:** Remove contaminated clothing and wash affected area with soap and warm water. Get medical attention if irritation persists. **IF INHALED:** Remove victim to fresh air and give artificial respiration if indicated.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION:** Harmful if swallowed. Avoid inhaling dust. May cause skin irritation. Avoid contact with skin. Do not contaminate food or foodstuffs.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**  
Applicators and other handlers must wear long-sleeved shirt and long pants; waterproof gloves, shoes plus socks and a DustMist filtering respirator (MSA/NIOSH approval number 6100-TC-21C). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Use Safety Recommendations**  
Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if possible after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**  
Do not contaminate water when disposing of equipment washwaters. This product is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Apply this product only as specified on this label. Do not apply directly adjacent to potable water supplies.

**DIRECTIONS FOR USE**  
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not plant root crops in PCNB treated fields within 12 months of broadcast and banding applications unless PCNB is registered for use on those crops. Do not apply this product through any type of irrigation system. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not use this product in California for control of Leaf Spot or Dollar Spot on Turf.

**AGRICULTURAL USE REQUIREMENTS**  
Use this product only in accordance with its labeling and with the Worker Protection Standard, 29 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). The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected landfalls may be in the area during application. Do not enter or allow anyone into treated areas during the restricted-entry interval (REI) of 12 hours. PPE required for only 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: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

**STORAGE AND DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Proper disposal of excess pesticide, spray mixture, or dilution is a violation of Federal law. If the waste cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. **CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. (419-WPS-PM4/11-24-83)

**GENERAL INFORMATION**  
This product is a wettable powder and is recommended for use in water. When mixing make sure that the water mixture is continuously agitated to give uniform fungicide coverage. PCNB 75 W is a preventive fungicide recommended for control of certain soil-borne diseases as listed for turf and ornamental crops. Therefore best disease control results when applied as a preventive program. Carefully follow the recommended rates and the application remarks.

**FOR TURFGRASS**  
Use as a fungicide in the prevention and control of the listed soil-borne diseases which attack turfgrass on golf courses, sod farms, home lawns, institutional, ornamental, and recreational areas where fine turf is under a maintenance program.

**DISEASES CONTROLLED**  
Brown Patch (*Rhizoctonia solani*)  
Leaf Spot (*Helminthosporium* spp.)  
Dollar Spot (*Sclerotinia homocarpa*)  
Gray Snow Mold (*Typhula* spp.)  
Pink Snow Mold (*Fusarium nivale*)  
\*Do not use in California.

For best results use PCNB 75 W as a preventive application before diseases appear, or apply at the first sign of the infection. After application the treated areas should be watered to wash the fungicide down to the soil level. If heavy rainfall or flooding occurs after treatment, or if disease is severe or reappears, treat area again. Follow the rates as outlined below for the respective disease.

Disease/Host	Amvac's water per 1,000 sq ft	How and When to Apply
<b>Brown Patch</b> ( <i>Rhizoctonia solani</i> ) St. Augustine, Bermudagrass and similar warm season grasses	1 lb / 10-15 Gals	Apply once in Spring or Fall or when disease appears. If it is severe or reappears, retreat 3 to 4 weeks later.
<b>Dichondra</b>	1 lb / 40 Gals	Treat as above
<b>Bluegrass Ryegrass</b> , Bent and similar cool season grasses	3.4 oz / 13-8 Gals	Apply at 1st sign of disease. Repeat every 7-10 days during warm damp weather.
<b>Helminthosporium spp.</b> Leaf Spot Dollar Spot ( <i>Sclerotinia homocarpa</i> ) *Do not use in California	7.10 oz / 15-10 Gals	For preventative apply in Spring or Fall of each year. If disease is present apply at 10 oz rate as soon as possible. Retreat if severe or reappears retreat area 3 to 4 weeks later. 1st treatment should be made prior to first snow fall.
<b>Gray Snow Mold</b> ( <i>Typhula</i> spp.) <b>Pink Snow Mold</b> ( <i>Fusarium nivale</i> )	8 oz or 15-10 Gals	1st treatment should be made prior to first snow fall.

Do not graze treated areas or feed grass clippings to livestock. Under certain growing conditions, a temporary discoloration of the grass occasionally may occur. This causes no harm and will disappear in a short time.

**GROUND SPRAY for ESTABLISHED AZALEAS and CAMELLIAS**  
For Azalea Petal Blight (*Conium azaleae*) on Azaleas and Camellia Flower Blight on Camellias use 1 lb / 150 sq ft. Mix and apply in sufficient water (5 to 10 gallons per 100 sq ft) to give uniform coverage to soil beneath bushes and in the plant bed. Begin application prior to opening of buds and repeat every 3 to 4 weeks during bloom season.

Mixtures of PCNB 75 W and water must be mixed with the soil as a drench treatment for protection against the listed diseases on nursery, greenhouse, field grown and established plants. A preliminary trial is suggested first before a full treatment is given to any plant species not listed in these directions.

**DISEASES CONTROLLED**

Common Name	Fungus Name
Root and stem rot	<i>Rhizoctonia spp.</i>
Botrytis storage rot	<i>Botrytis spp.</i>
Neck rot	<i>Sclerotinia gladioli</i>
Bulb rot	<i>Sclerotinia gladioli</i>
Needle blight	<i>Dothidroma pini</i>
Petal blight	<i>Conium azaleae</i>
Bulb and stem rot	<i>Sclerotinia spp.</i>
Flower blight	<i>Sclerotium canthace</i>
Crown rot	<i>Pectinaria rotii</i>
Black rot	<i>Sclerotinia sclerotiorum</i>

**NURSERY & GREENHOUSE**  
For *Rhizoctonia* control apply as a soil drench at time of seeding and/or transplanting.  
**Tropical Foliage Plants**  
Ajuga, Aphelandra, Dieffenbachia, Dracena, Ficus, Fritonia, Gynura, Hoya, Peperomia, Polka, Schefflera, Syngonium, Tradescantia and similar tropical foliage plants. Mix 4 to 8 oz in 100 gallons water and apply to 400-800 sq ft. of bed or bench area.

Coverage: For soil depths of 4 inches or less, apply 100 gallons to 800 sq ft. For soil depths of more than 4 inches apply 100 gallons to 400 sq ft. One repeat application can be made 4 to 6 weeks later if necessary. Do not apply to Philodendron or Ficus since injury may occur.  
**Bedding and Flowering Plants**  
Carnation, Chrysanthemum, Dahlia, Geranium, Marigold, Petunia, Poinsettia, Portulaca, Salvia, Vinca, Zinnia and similar plants. Use 4 oz with 100 gallons of water and apply to 800 sq ft. of flat or bench area. Apply at seeding or transplanting time.

**Herbaceous and Woody Plants**  
Herbaceous Plants: Kalanchoe, Lily and similar plants.  
Woody Plants: Azalea, Boxwood, English Ivy, Holly, Juniper, Pine, Rhododendron and similar plants. Use 4 to 8 oz with 100 gallons of water and apply to 400-800 sq ft. of bed or bench area.

**FIELD GROWN ORNAMENTAL CROPS**  
**HOW TO MIX AND APPLY**  
Mix the following amounts of PCNB 75 W in sufficient water and apply before planting to give uniform ground coverage. Incorporate the spray/drench solution to depth of soil as indicated.

**AS A PRE-PLANT BROADCAST TREATMENT**  
For *Rhizoctonia* Root Rot on Easter Lilies, and for Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips use 3 1/2 to 6 1/2 lbs. per 1,000 sq ft. Thoroughly incorporate to a depth of 6 to 7 inches. Use the lower rate for light soils, the higher rate for heavy soils.  
For Bulb Rot and Stem Rot (*Sclerotinia rot*) on Dutch lily use 3 1/4 to 4 1/2 lbs / 1,000 sq ft. Apply prior to planting. Thoroughly incorporate solution to depth of 2 to 3 inches.  
For Neck or Bulb Dry Rot (*Sclerotinia* or *Sclerotinia gladioli*) on Gladiolus use 3 2/3 lbs / 1,000 sq ft. Apply prior to planting. Thoroughly incorporate to depth of 4 to 6 inches. Bulbs may be planted immediately after solution is incorporated.

FOR THE FOLLOWING EMERGENCY SERVICE, PHONE 24 HOURS 1 DAY TRANSPORTATION CHEMIFEC 1 800 424-9300 MEDICAL HAZARD INFORMATION SERVICES (MIS) 1 800 278 5635 EXT. 169

**BROADCAST TREATMENT (Cont.)**  
For Stem Rot (*Rhizoctonia*) on Calendula, Larkspur, Snapdragon and Sweet Pea use 3 1/2 lbs per 1,000 sq ft. Apply prior to planting. Thoroughly incorporate to depth of 4 inches.  
For *Rhizoctonia* Needle Blight on Southern Pine Seedlings use 50 lbs. per acre. Mix and apply in 100 gallons of water to give uniform ground coverage. An additional 1 1/2 inch of water per acre should be applied by irrigation prior to planting. Seed may be planted immediately after irrigation or within one week of this date.

**AS A BAND TREATMENT**  
For Neck or Bulb Dry Rot (*Sclerotinia* or *Sclerotinia gladioli*) on Gladiolus apply 5 1/2 lbs per 1,000 linear feet of row as a 12 inch band centered on the row at planting time. Incorporate to depth of 4 inches. Bulbs may be planted immediately after incorporation.  
For Bulb Rot and Stem Rot (*Sclerotinia rot*) on Dutch lily use 1 1/2 lb per 1,000 linear feet of row as a 12 inch band centered on the row at planting time. Follow with 3 additional applications at the same rate at 15 day intervals.

**AS AN IN FURROW TREATMENT AT PLANTING TIME**  
For control of *Rhizoctonia* Root Rot on Easter Lilies, and for Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips mix 4 1/2 to 6 lbs. in 5 to 10 gallons of water and apply per 1,000 linear feet of row. Direct the spray into open furrow to thoroughly cover entire furrow and bulbs. Close furrow in normal manner. Use lower rate for lighter soils and higher rate for heavier soils. For Black Rot control, use high rate.

**DIP TREATMENT for BULBS and DORMANT ROSES**  
Use before planting or storing. It is important to maintain continuous circulation of dip solution to assure uniform application of fungicide. Add 1% "Sickler" to solution. Use a wire mesh for dipping and drain bulbs to return excess solution to dip tank. Dispose of unused dip solution according to "Storage and Disposal" and observe use of protective clothing (gloves etc.) as listed under "Personal Protective Equipment (PPE)"; both sections found on this label.  
For control of Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips dip bulbs for 5 minutes in a solution containing 2 lbs. PCNB 75 W in 3.2 gallons of water.  
For Root Rot (*Rhizoctonia*) of Easter Lilies dip in a solution containing 4 to 6 lbs. PCNB 75 W in 100 gallons of water for a period of 5 to 15 minutes.  
For Botrytis Storage Rot on Roses Dip or spray dormant plants before packaging or storage, with a solution of 2 lbs PCNB 75 W in 100 gals of water.

**IMPORTANT: PLEASE READ BEFORE USE**  
By using this product, the user accepts the following **WRITTEN WARRANTY**:  
AMVAC warrants that (a) this product conforms to the chemical description on its label, (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, warnings, cautions, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, of residues on food crops, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under all application, weather and crop conditions.  
There are no express warranties other than those set forth herein. Amvac neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. Amvac expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other variety of quality or performance.  
This warranty does not extend to, and the user shall be solely responsible for, any loss or damage which results from the use of this product in any manner which is inconsistent with this label's directions, warnings or cautions. User's exclusive remedy under all application, weather and crop conditions, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or other wise shall be limited, at Amvac's option, to replacement of, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall Amvac or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product. (419-WPS-PM4/12-07-93)

NET WEIGHT 50 POUNDS  
**AMVAC CHEMICAL CORPORATION**  
4100 EAST WASHINGTON BLVD.- LOS ANGELES, CA 90023 U.S.A.

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