

Reg # 5481-444

PM-25

File  
194



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

MAR 4 1994

H. R. McLane  
Agent for: AMVAC CHEMICAL CORPORATION  
7210 Red Road - Suite 206  
Miami, FL 33143-5321

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 12/07/93 in Response to PR Notice 93-7  
EPA Reg. No. 5481-444  
PCNB 10G TURF & ORNAMENTAL

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**. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (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 not been reviewed or 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:**

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with SoyCandle Ink on paper that  
contains at least 50% recycled fiber

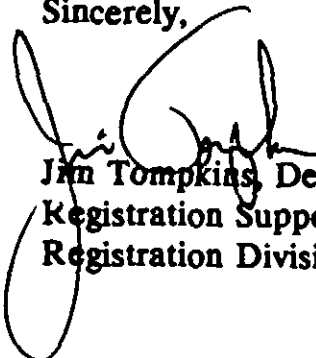
Submit the final printed labeling via the U.S. Postal Service to:

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

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,

  
Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

394

ACCEPTED COMMENTS  
in EPA Letter 1/14/81  
EPA MAR 4 1981  
The Federal Register  
has published the  
provisions for the  
label under EPA  
NO. 5481-444

# TURF & ORNAMENTAL SOIL FUNGICIDE

## BEST AVAILABLE COPY

ACTIVE INGREDIENT:  
Pentachloronitrobenzene(PCNB) - 10%  
INERT INGREDIENTS: 90%  
TOTAL 100%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA EST NO. 5481-CA-1

NO. 5481-444

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

### 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 comatose 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 water. Get medical attention. **IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

### 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 through any type of irrigation system. Slight agitation may be required to mix the material. Do not use treated seed for feed, food or oil purposes. Do not use this product in California for control of Leaf Spot, or Dollar Spot on turf. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid inhaling spray mist. This material may cause skin irritation. Use with adequate ventilation. Do not contaminate feed or foodstuffs.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants; waterproof gaiters; shoes plus socks and a Duraliner hearing respirator (MSHA/NIOSH approval number prefix TC-21C). Follow manufacturers 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 Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. This product is toxic to fish. 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 apply where run-off is likely to occur. Apply this product only as specified on this label. Do not apply directly adjacent to potable water supplies.

### 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). The requirements in this box only apply to uses 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 handlers may be in the area during application. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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: 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 container in a cool, dry, locked place out of reach of children. **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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved procedures by State and local authorities.

## FOR ORNAMENTALS

Mix this product with the soil and water in as a 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	Common Name	Fungal Name
Root and stem rot	- Rhizoctonia spp.	Petal blight	- Ovarynia azaleae
Botrytis storage rot	- Botrytis spp.	Bulb and stem rot	- Sclerotium rolfsii
Neck dry rot	- Stromatinia gladioli	Flower blight	- Sclerotium camelliae
Bulb dry rot	- Sclerotium gladioli	Crown rot	- Pellicularia rolfsii
Needle blight	- Dothistroma pini	Black rot	- Sclerotinia sclerotiorum

## NURSERY & GREENHOUSE

For Rhizoctonia control apply to soil surface and water in at time of seeding and/or transplanting

### Tropical Foliage Plants

Ajuga, Aphelandra, Dieffenbachia, Draena, Ficus, Fittonia, Gynura, Hoya, Peperomia, Pothos, Schefflera, Syngonium, Tradescantia and similar tropical foliage plants. Apply 15 lbs. per 1,000 sq. ft. of bed or bench area and thoroughly mix into the top 2 inches. One repeat application can be made 4 to 6 weeks later if necessary. Do not apply to Philodendron or Pilea since injury may occur.

### Ornamental, Bedding and Flowering Plants

For African Violets, Begonias, Carnations, Chrysanthemum, Dahlia, Geranium, Marigold, Petunia, Poinsettia, Portulaca, Salvia, Vinca, Zinnia and similar plants. Use 15 lbs. and apply to 1,000 sq. ft. of flat or bench area. Apply at seeding or transplanting time. Mix into the top 2 to 3 inches of soil surface.

### 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 15 to 20 lbs. and apply to 1,000 sq. ft. of bed or bench area. Mix into the top 2 to 3 inches of soil.

## FIELD GROWN ORNAMENTAL CROPS

### HOW TO APPLY

Mix the following amounts of PCNB 10-G TURF & ORNAMENTAL into the top several inches of soil and water in before planting to give uniform ground coverage. Incorporate the granules to a depth of soil as indicated.

### AS A PRE-PLANT BROADCAST TREATMENT

For Rhizoctonia Root Rot on Eggplant, Lilies, and for Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips apply 1,000 to 1,500 lbs. per acre (equiv. to 2 1/4 lbs to 3 1/2 lbs. per 100 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 rolfsii) on Dutch Iris apply 1,000 to 1,500 lbs. per acre or 2 1/2 to 3 1/2 lbs./100 sq. ft. Apply prior to planting. Thoroughly incorporate to a depth of 2 to 3 inches.

For Neck or Bulb Dry Rot (Stromatinia or Sclerotinia gladioli) on Gladiolus apply 1,200 lbs. per acre (equivalent to 2 3/4 lbs. per 100 sq. ft.) Apply prior to planting. Thoroughly incorporate to a depth of 4 to 6 inches. Bulbs may be planted immediately after granules are incorporated.

For Stem Rot (Rhizoctonia) on Calendula, Larkspur, Snapdragon and Sweet Pea apply 1,000 lbs. per acre or 2 1/4 lbs. per 100 sq. ft. Apply 1 week before planting. Thoroughly

## ESTABLISHED AZALEAS & CAMELLIAS

For Azalea Petal Blight (*Ovarynia azaleae*) on Azaleas and Camellia Flower Blight on Camellias use 7.5 lbs./150 sq. ft. Apply evenly over the soil beneath bushes and in the plant bed. Water in. Begin application prior to opening of buds and repeat every 3 to 4 weeks during bloom season.

## 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 homoeocarpa*)\* Gray Snow Mold (*Typhula* spp.)  
Pink Snow Mold (*Fusarium nivale*) \*Do not use in California.

For best results use 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 and comments as listed below for control of turfgrass diseases.

Disease/Host	Rate/1,000 Sq. Ft.	How and When to Apply
<b>Brown Patch</b> ( <i>Rhizoctonia solani</i> ) St. Augustine, Bermudagrass & similar warm season grasses.	7 1/2 lbs.	Apply once in Spring or Fall or when disease appears. If it is severe or reappears, retreat 3 to 4 weeks later. Lightly sprinkle the area to wash granules to soil level.
<b>Dichondra</b> Bluegrass, Rye, Fescue, Bent and similar cool season grasses.	5 - 7 1/2 lbs.	Treat as above.
<b>Helminthosporium spp.*</b> Leaf Spot Dollar Spot* ( <i>Sclerotinia</i> <i>homoeocarpa</i> ) *Do not use in California	5 - 7 1/2 lbs.	For preventative apply in Spring or Fall of each year. If disease is present apply 7 1/2 lb. rate as soon as possible. If disease is severe or reappears retreat area 3 to 4 weeks later.
<b>Gray Snow Mold</b> ( <i>Typhula</i> spp.) <b>Pink Snow Mold</b> ( <i>Fusarium nivale</i> )	5 - 7 1/2 lbs.	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.

### IMPORTANT: PLEASE READ BEFORE USE

By using this product, the user accepts the following LIMITED WARRANTY: MANAC warrants that (a) this product conforms to the chemical description on its label.

Do not contaminate water when disposing of equipment washwaters. This product is toxic to fish. 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 apply where run-off is likely to occur. Apply this product only as specified on this label. Do not apply directly adjacent to potable water supplies.

### User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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### FOR ORNAMENTALS

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#### DISEASES CONTROLLED

Common Name	Fungal Name	Common Name	Fungal Name
Root and stem rot	- Rhizoctonia spp.	Petal blight	- Ovipellis azaleae
Botrytis storage rot	- Botrytis spp.	Bulb and stem rot	- Sclerotium rolfsii
Neck dry rot	- Stromatinia gladioli	Flower blight	- Sclerotium camelliae
Bulb dry rot	- Sclerotium gladioli	Crown rot	- Pellicularia rolfsii
Needle blight	- Dothistroma pini	Black rot	- Sclerotinia sclerotium

### NURSERY & GREENHOUSE

For Rhizoctonia control apply to soil surface and water in at time of seeding and/or transplanting

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#### Ornamental, Bedding and Flowering Plants

For African Violets, Begonias, Carnations, Chrysanthemum, Dahlia, Geranium, Marigold, Petunia, Poinsettia, Portulaca, Salvia, Vinca, Zinnia and similar plants. Use 15 lbs. and apply to 1,000 sq.ft. of flat or bench area. Apply at seeding or transplanting time. Mix into the top 2 to 3 inches of soil surface.

#### 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 15 to 20 lbs. and apply to 1,000 sq.ft. of bed or bench area. Mix into the top 2 to 3 inches of soil.

### FIELD GROWN ORNAMENTAL CROPS

#### HOW TO APPLY

Mix the following amounts of PCNB 10-G TURF & ORNAMENTAL into the top several inches of soil and water in before planting to give uniform ground coverage. Incorporate the granules to a 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 apply 1,000 to 1500 lbs. per acre (equiv. to 2 1/4 lbs. to 3 1/2 lbs. per 100 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 rolfsii) on Dutch Iris apply 1,000 to 1,500 lbs. per acre or 2 1/2 to 3 1/2 lbs./100 sq. ft. Apply prior to planting. Thoroughly incorporate to a depth of 2 to 3 inches.

For Neck or Bulb Dry Rot (Stromatinia or Sclerotinia gladioli) on Gladiolus apply 1,200 lbs. per acre (equivalent to 2 3/4 lbs. per 100 sq.ft.) Apply prior to planting. Thoroughly incorporate to a depth of 4 to 6 inches. Bulbs may be planted immediately after granules are incorporated.

For Stem Rot (Rhizoctonia) on Calendula, Larkspur, Snapdragon and Sweet Pea apply 1,000 lbs. per acre or 2 1/4 lbs. per 100 sq.ft. Apply 1 week before planting. Thoroughly incorporate to a depth of 4 inches.

For Rhizoctonia Needle Blight on Southern Pine Seedlings use 38 lbs. per 1,000 sq. ft. Mix granules into soil to give uniform ground coverage. Apply 1 1/2 inch of water per acre 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 (Stromatinia or Sclerotinia gladioli) on Gladiolus apply 42 lbs. per 1,000 linear feet of row or 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 rolfsii) on Dutch Iris use 3 3/4 lbs. 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 apply 60 lbs. per 14,500 sq ft. of linear row in a 12 inch band centered on the row, at planting time. Follow this treatment with 3 additional band applications at 15 day intervals. Use lower rate for lighter soils and higher rate for heavier soils. For Black Rot control, use high rate.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY**  
 TRANSPORTATION: CHEMTREC 1-800-424-9300  
 MEDICAL: HAZARD INFORMATION SERVICES (H.I.S.) 1-800-228-5635 Ext. 169

### ESTABLISHED AZALEAS & CAMELLIAS

For Azalea Petal Blight (Ovipellis azaleae) on Azaleas and Camellia Flower Blight on Camellias use 7.5 lbs./150 sq. ft. Apply evenly over the soil beneath bushes and in the plant bed. Water in. Begin application prior to opening of buds and repeat every 3 to 4 weeks during bloom season.

### 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 homoeocarpa) Gray Snow Mold (Typhula spp.)  
 Pink Snow Mold (Fusarium nivale) \*Do not use in California.

For best results use 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 and comments as listed below for control of turfgrass diseases.

Disease/Host	Ampl./ 1,000 Sq.Ft.	How and When to Apply
<b>Brown Patch</b> (Rhizoctonia solani) St. Augustine, Bermudagrass & similar warm season grasses.	7 1/2 lbs.	Apply once in Spring or Fall or when disease appears. If it is severe or reappears, retreat 3 to 4 weeks later. Lightly sprinkle the area to wash granules to soil level.
Dichondra	5 - 7 1/2 lbs.	Treat as above.
Bluegrass, Rye, Fescue, Bent and similar cool season grasses.	2 - 2 1/2 lbs.	Apply at 1st sign of disease. Repeat every 7-10 days during warm damp weather.
<b>Helminthosporium spp.*</b> Leaf Spot Dollar Spot* (Sclerotinia homoeocarpa) *Do not use in California	5 - 7 1/2 lbs.	For preventative apply in Spring or Fall of each year. If disease is present apply 7 1/2 lb. rate as soon as possible. If disease is severe or reappears retreat area 3 to 4 weeks later.
<b>Gray Snow Mold</b> (Typhula spp.) <b>Pink Snow Mold</b> (Fusarium nivale)	5 - 7 1/2 lbs.	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.

#### IMPORTANT: PLEASE READ BEFORE USE

By using this product, the user accepts the following: **LIMITED 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 warranty 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 and Amvac's or seller's exclusive liability for any claim, loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise 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 (444-WPS.PM4/12-07-93)

NET WEIGHT 50 POUNDS

# AMVAC CHEMICAL CORPORATION

4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90023 U.S.A.