



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Darryl E. Brock
Regulatory Affairs Manager
AMVAC Chemical Corporation
4695 MacArthur Court
Suite 1250
Newport Beach, CA 92660

DEC 9 2000

Subject: PCNB 10G
EPA Reg. No. 5481-444
Amendment dated August 15, 2003

Dear Mr. Brock:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. Add the following statement below the first paragraph under the "Directions for Use" heading (page 2): "Do not plant any root crop in PCNB treated fields within 12 months of application unless PCNB is registered for use on those crops."

2. In the table under "NURSERY AND GREENHOUSE" (page 3):

In column 1, delete the horizontal line between Caladium and Cissus under Foliage plants.

In columns 2 and 3, add a horizontal line immediately below "Root/Stem Rot (*Rhizoctonia spp.*)" under Foliage Plants.

In columns 2 and 3, add horizontal lines immediately under "Root/Stem Rot, Damping off (*Rhizoctonia spp.*)" and Rhizoctonia Stem Rod "(*Rhizoctonia spp.*)" under Ornamental, Bedding & Flowering plants

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supercedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

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

Enclosure

PCNB 10G

TURF & ORNAMENTAL SOIL FUNGICIDE

FOR CONTROL OF SOIL-BORNE DISEASES ON TURFGRASS AND ORNAMENTAL PLANTS

ACTIVE INGREDIENT:	
Pentachloronitrobenzene (PCNB)	10.0%
INERT INGREDIENTS:	90.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • 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 on skin or clothing:	<ul style="list-style-type: none"> • 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 inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY: Transportation: CHEMTREC.....1-800-424-9300 Other: AMVAC.....1-323-264-3910	

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-444
EPA Est. No. 5905-IA-01

NET WEIGHT:
50 LBS

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

DEC 9 2003

U.S. Environmental Protection Agency
Federal Insecticide, Fungicide, and Rodenticide Act,
Registration No. 5481-444



4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-323-264-3910 • www.amvac-chemical.com

444-030815r2

Page 1 of 6

444-030815r2

Page 2 of 6

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid inhaling dust. This product 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,
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

USER SAFETY 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Cover or incorporate granules. 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 washwaters. 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.

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. Do not use this product in California for control of Dollar Spot on turf.

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, 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 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:

- 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 (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not allow children or pets on treated areas until granules are washed to the soil surface.

FOR ORNAMENTALS

PCNB 10G is a contact and preventive fungicide recommended for the control of certain soil-borne diseases of turf and ornamentals. Mix this product with the soil and water as a treatment for protection against the listed diseases on nursery, greenhouse, field grown and established plants. A preliminary trial is suggested before a full treatment is given to any plant species not listed in these directions. When a rate range is given, use the lower rate for a preventive program under low disease pressure conditions or on lighter soil (sand, sandy loam, loamy sand). Use the higher rate for curative programs under high disease pressure conditions or on heavier soils (silt, clay loam).

Diseases Controlled

Common Name
 Root/Stem Rot, Damping Off
 Sclerotinia Neck Rot
 Stem Rot
 Bulb/Crown Rot
 Bulb and Stem Rot
 Stromatinia Dry Rot
 Gray Bulb
 Ovulinia Petal Blight
 Flower Blight
 Needle Blight

Fungi Name
Rhizoctonia solani
Sclerotinia gladioli
Sclerotinia sclerotiorum
Sclerotium rolfsii
Sclerotinia sclerotiorum
Stromatinia gladioli
Rhizoctonia tuliparum
Ovulinia azaleae
Ciborinia camelliae
Dothistroma septospora

NURSERY AND GREENHOUSE

Growing media mix: Mix 1.0 to 1.5 lbs PCNB 10G per cubic yard of media in a suitable mixer/blender. Media ingredients should be dry enough and free of large lumps to prevent agglomeration. Blend mix thoroughly to insure uniform distribution of PCNB 10G throughout the mixture. For seeding or transplanting of young seedlings or plugs, use the lower rate in media mixture. For old plants or nursery stock, use the higher rate.

Crop	Disease	Application Rate & Method
Foliage plants such as: Aglaonema, Ajuaga, Anthurium, Aphelandra, Caladium	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i>)	Broadcast: 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 after if necessary.
Cissus, Dieffenbachia, Dracaena, Ficus, Fittonia, Gynura, Hoya, Maranta, Palms, Peperomia, Pothos, Schefflera, Schlumbergera, Spathiphyllum, Syngonium, Tradescantia & similar foliage plants	Rhizoctonia Stem Rot (<i>Rhizoctonia spp.</i>) Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i>)	Broadcast: Apply 20 lbs. of PCNB 10G per 1,000 sq. ft. one week prior to planting. Spread evenly on the soil surface and thoroughly mix into the soil to a depth of 4 inches. Growing media mix: See above. Do not apply to Philodendron and Pilea since injury may occur.
Ornamental, Bedding & Flowering plants: Abutilon, African Violets, Begonias, Carnations, Chrysanthemum, Dahlia, Delphinium, Geranium, Marigold, Pansy, Petunia, Poinsettia, Portulaca, Salvia, Vinca, Zinnia & similar plants.	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i>) Rhizoctonia Stem Rot (<i>Rhizoctonia spp.</i>) Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i>)	Broadcast: Apply 15 lbs. of PCNB 10G per 1,000 sq. ft. of bed or bench area and thoroughly mix into the soil to a depth of 2 inches. Broadcast: Apply 20 lbs. of PCNB 10G per 1,000 sq. ft. of bed or bench areas and thoroughly mix into the top 4 inches of soil. Growing media mix: See above.
Herbaceous & Woody plants such as: Azalea, Boxwood, English Ivy, Holly, Juniper, Kalanchoe, Pine, Rhododendron & similar plants	Root/Stem Rot (<i>Rhizoctonia solani</i>)	Broadcast: Apply 15 to 20 lbs. of PCNB 10G per 1,000 sq. ft. of bed or bench area. Spread evenly on the soil surface and thoroughly mix into the top 2 to 3 inches. Growing media mix: See above.

ORNAMENTAL CROPS		
How to apply: Apply the following amounts of PCNB 10G and thoroughly incorporate into the top several inches of soil before planting to give uniform ground coverage. Incorporate the granules to a depth of soil as indicated.		
Crop	Disease	Application Rate & Method
Bulb Crops such as: Gladiolus, Hyacinths, Iris, Lilies (Asiatic, Easter, Oriental), Narcissus, Tulips	Root/Stem Rot (<i>Rhizoctonia solani</i>) Bulb/Crown Rot (<i>Sclerotium rolfsii</i>) Bulb and Stem Rot (<i>Sclerotinia sclerotiorum</i>)	As a Pre-plant Broadcast Incorporation Treatment Apply 20 to 35 lbs. per 1,000 sq. ft. Spread evenly on the soil surface and thoroughly incorporate to a depth of 6 to 7 inches. Use the lower rate for light soils and the higher rate for heavy soils and Bulb and Stem Rot control.
	Gray Bulb Rot (<i>Rhizoctonia tuliparum</i>) Stem Rot (<i>Sclerotinia sclerotiorum</i>)	Apply 20 to 35 lbs. per 1,000 sq. ft. Spread evenly on the soil surface and thoroughly mix to a depth of 2 to 3 inches of soil by discing or roto-tilling.
	Stromatinia Dry Rot (<i>Stromatinia gladioli</i>) Sclerotinia Neck Rot (<i>Sclerotinia sp.</i>)	Apply 15 to 25 lbs. per 1,000 sq. ft. evenly at planting time to soil surface and thoroughly incorporate to a depth of 4 to 6 inches by discing or roto-tilling. Bulbs may be planted immediately after granules are incorporated.
Calendula, Larkspur, Snapdragon, Sweet Pea	Rhizoctonia Stem Rot (<i>Rhizoctonia spp</i>)	Apply 26 lbs. per 1,000 sq. ft. prior to planting. Spread evenly on the soil surface and thoroughly incorporate to a depth of 4 inches.
Southern Pine Seedlings	Root/Stem Rot (<i>Rhizoctonia solani</i>) Needle Blight (<i>Dothistroma septospora</i>)	Apply 8.5 lbs. per 1,000 sq. ft. Mix granules into soil to give uniform coverage. Apply 1-1/2 inch water per acre by irrigation prior to planting. Seed may be planted immediately after irrigation or within one week of this date.
Bulb Crops such as: Gladiolus, Hyacinths, Iris, Lilies (Asiatic, Easter, Oriental), Narcissus, Tulips	Gray Bulb Rot (<i>Rhizoctonia tuliparum</i>) Stem Rot (<i>Sclerotinia sclerotiorum</i>)	As a Band Treatment Apply 60 lbs. per 14,500 linear feet of row in a 12 inch band, centered on the row, at planting time. Follow with three additional applications at this same rate at 15 days intervals.
Established plants: Azaleas Camellia	Ovulinia Petal Blight (<i>Ovulinia azaleae</i>) Flower Blight (<i>Ciborinia camelliae</i>)	Use 7.5 lbs. per 150 sq. ft. Apply evenly over the soil beneath bushes and in the plant bed. Water immediately. Begin application prior to opening of buds and repeat every 3 to 4 weeks during bloom season.
ORNAMENTAL VEGETABLE BEDDING PLANTS (Container Grown)		
Limited to only container grown ornamental vegetable plants such as: Kale and other cruciferous crops, and Peppers	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i>)	Growing media mix: Mix 1 to 1.5 lbs. per cubic yard of media. Ingredients should be free of large lumps and dry enough to prevent agglomeration. Blend thoroughly to insure uniform distribution throughout the mixture. Use the lower rate of mixtures at time of seedling or transplanting of young seedlings or plugs. Use the higher rate for older plants.

HOW TO APPLY

For overall application to NURSERY and TURFGRASS areas, use an appropriate "drop" or "Cyclone" type granule spreader. For the proper soil placement of the granules for the protection of ORNAMENTAL ROW CROPS, use a specialized type granule spreader such as "Gandy". For proper granule application, refer to your spreader's Operational Manual. Other uses on this label recommend the pre-mixing of PCNB 10G with a "growing medium" or "soil" in a suitable mixer/blender prior to the placement of the mixture in GREENHOUSE BENCHES or PLANT CONTAINERS.

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. 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. Apply high rate when disease is severe and use low rate when disease pressure is light.

Diseases Controlled

Common Name	Fungi Name
Brown Patch or Rhizoctonia Blight	<i>Rhizoctonia solani</i>
Gray Snow Mold	<i>Typhula sp</i>
Dollar Spot*	<i>Sclerotinia homeocarpa. Moellerodiscus sp., Lanzia sp.</i>
Leaf Spot	<i>Drechslera poae</i>
Pink Snow Mold	<i>Microdochium nivale</i>

*Do not use for Dollar Spot in California

Disease/Host	Amt/1,000 sq. ft.	How and When to Apply
Brown Patch or Rhizoctonia Blight <i>(Rhizoctonia solani)</i> : St. Augustine, Bermuda grass & similar warm climate grasses	7-1/2 lbs.	Apply at first sign of disease. If it is severe or reappears, retreat 3 to 4 weeks later. Lightly sprinkle with water in treated area to wash granules to soil level.
Dichondra	7-1/2 lbs.	Treat as above.
Bluegrass, Rye, Fescue, Bent & similar cool climate grasses	2 to 2-1/2 lbs.	Apply at first sign of disease. Repeat every 7 to 10 days during warm damp weather. To control existing infections, apply at the higher rate as soon as symptoms appear.
All Turf Grass Species Leaf Spot (<i>Drechslera poae</i>) Dollar Spot* (<i>Sclerotinia homoeocarpa</i> , <i>Moellerodiscus sp.</i> , <i>Lanzia sp.</i>) *Do not use in California	5 to 7-1/2 lbs.	For preventive, apply 5 lbs. rate in Spring or Fall each year. If disease is present, apply the 7-1/2 lbs. rate as soon as possible. If disease is severe or reappears, retreat area 3 to 4 weeks later.
Cool Climate Grasses Gray Snow Mold (<i>Typhula sp.</i>) Pink Snow Mold (<i>Microdochium nivale</i>)	5 to 10 lbs.	Make one application prior to first snowfall or when temperature remains below 60°F and extended wet conditions are expected. In the absence of snow cover, applications of 3 to 5 lbs. can be applied at 4 to 6 week intervals to maintain control when disease pressure is severe.

NOTE: PCNB 10G must be moved into the soil/thatch layer to be effective. Applications must be followed by 1/4 to 1/2 inch of rainfall or irrigation prior to snow cover to insure optimum results. Do not graze treated areas or feed grass clippings to livestock. Under certain conditions, a temporary discoloration of the grass occasionally may occur. This causes no harm and will disappear in a short time.

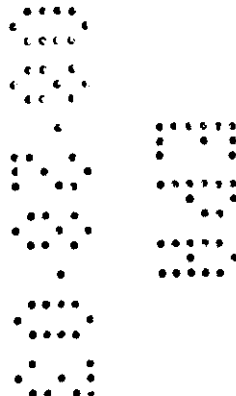
STORAGE AND DISPOSAL

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: 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.



LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES 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 THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT, SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

Amvac Chemical Corporation
4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-323-264-3910
www.amvac-chemical.com

