ACCEPTED with COMMENTS in EPA Letter Dated JUN 28 1995 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5481-443

PM 25 5481-443

PCNB 2 FLOWABLE

TURF & ORNAMENTAL SOIL FUNGICIDE

FOR CONTROL OF SOIL-BORNE DISEASES ON TURFGRASS and ORNAMENTALS

ACTIVE INGREDIENT:

Pentachloronitrobenzene(PCNB)	21.6%
INERT INGREDIENTS	78.4%
TOTAL	100.0%

Contains 2 pounds of PCNB per Gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

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: 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.

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 food or foodstuffs.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

[illegible] TC-21C) [illegible] TC-23C) [illegible] TC-14G) [illegible]

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 runoff is likely to occur. Apply this product only as specified on this label. Do not apply directly adjacent to potable water supplies.

CHEMICAL AND PHYSICAL HAZARDS

Do not allow product to freeze.

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. [illegible] 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. [illegible] restricted-entry interval (REI) of 12 hours. [illegible]

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5481-443 NET CONTENTS 1 GALLONS EPA EST NO 5481-CA-1

AMVAC CHEMICAL CORPORATION

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

FOR ORNAMENTALS

Mixtures of this product 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	Fungi Name	Common Name	Fungi Name
Root and stem rot	Rhizoctonia spp	Petal blight	Ovulinia 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	[illegible]
Needle blight	[illegible]	Black rot	Sclerotinia sclerotiorum

NURSERY & GREENHOUSE

For Rhizoctonia control apply as a soil drench at time of seeding and/or transplanting.

Tropical Foliage Plants

Aglaonema, Aphelandra, Dieffenbachia, Dracaena, Ficus, Fittonia, Gynura, Hoya, Peperomia, Pothos, Schefflera, Syngonium, Tradescantia and similar tropical foliage plants. Mix 3/4 to 1 1/2 pints 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 5 weeks later if necessary. Do not apply to Philodendron 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 3/4 pint with 100 gallons of water and apply to 800 sq ft. of bed 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 3/4 to 1 1/2 pints with 100 gallons of water and apply to 400-800 sq ft. of bed or bench area.

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 as listed under "Hazards to Humans", both sections found on this label. Wear chemical resistant gloves when dipping.

For control of Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips dip bulbs for 5 minutes in a solution containing 3/4 gallon of this product in 32 gallons of water.

For Root Rot (Rhizoctonia) of Easter Lilies dip in a solution containing 1 1/2 to 2 1/4 gal's PCNB 2 FLOWABLE TURF & ORNAMENTAL 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 1 gallon PCNB 2 FLOWABLE TURF & ORNAMENTAL in 100 gals. of water.

FIELD GROWN ORNAMENTAL CROPS

HOW TO MIX AND APPLY

Mix the following amounts of PCNB 2 FLOWABLE TURF & ORNAMENTAL 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 1 1/5 to 2 1/3 gals. 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 [illegible] Rot and Stem Rot (Sclerotium rolfsii) on Dutch Iris use 1 1/5 to 1 2/3 gals /1,000 sq ft. Apply prior to planting. Thoroughly incorporate solution to depth of 2 to 3 inches.

For Neck or Bulb Dry Rot (Stromatinia or Sclerotinia gladioli) on Gladiolus use 1 1/3 gal /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 Stem Rot (Rhizoctonia) on Calendula, Larkspur, Snapdragon and Sweet Pea use 1 1/3 gal 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 16 3/4 gals. 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 (Stromatinia or Sclerotinia gladioli) on Gladiolus apply 2 1/8 gallons 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 (Sclerotium rolfsii) on Dutch Iris use 1 qt. per 1,000 linear feet of row as a 12 inch band centered on the row at planting time. Follow with 3 additional applications of 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 1 3/4 gal. to 2 3/4 gals. 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.

SPRAY for ESTABLISHED AZALEAS & CAMELLIAS

For Azalea Petal Blight (Ovulinia azaleae) on Azaleas and Camellia Flower Blight on Camellia use 3 pints /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.

STORAGE AND DISPOSAL

1 of 1

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. Protect from temperatures below 20 °F. 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 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 grass where fine turf is under a maintenance program. Do not use for Turf "Leaf or Dollar Spot" in California.

DISEASES CONTROLLED

Brown Patch (Rhizoctonia solani)	Leaf Spot (Helminthosporium (spp.))*
Dollar Spot (Sclerotinia homeocarpa)*	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. 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. NOTE: Apply the high rate when disease is severe and the low rate when disease pressure is light. Treated area should be watered lightly as soon as possible after the application to wash the fungicide down to the soil level.

Disease/Host	Amt./Gals. water per 1,000 Sq Ft	How and When to Apply
Brown Patch (Rhizoctonia solani) St. Augustine, Bermuda & similar warm season grasses	32-48 fl oz /1 to 5 Gals. of water	Apply once in spring or fall or when disease appears. If it reappears, retreat 3 to 4 weeks later.
Dichondra	32-48 fl oz /5 to 10 Gals. of water	Treat as above
Bluegrass, Rye, Fescue, Bent & similar cool season grasses	10-12 fl oz /1 to 5 Gals. of water	Apply at 1st sign of disease. Repeat every 7-10 days during warm damp weather.
Leaf Spot (Helminthosporium spp.) Dollar Spot* (Sclerotinia homeocarpa) *Do not use in California	22-32 fl oz /1 to 5 Gals. of water	For preventative apply in spring or fall of each year. If disease is present apply at 32 fl. oz. rate as soon as possible. If disease is severe or reappears retreat area 3 to 4 weeks later.
Gray Snow Mold (Typhula spp.) Pink Snow Mold (Microdochium nivale)	24-32 fl oz /1 to 5 Gals. of water	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 the 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 exclusive, maximum 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.

(443-amd PM4/08-08-95)

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

BEST COPY AVAILABLE