

PCNB 10G

TURF & ORNAMENTAL SOIL FUNGICIDE

FOR CONTROL OF SOIL-BORNE DISEASES ON TURFGRASS AND ORNAMENTALS

ACTIVE INGREDIENT:

Pentachloronitrobenzene (PCNB)10.0%

INERT INGREDIENTS:.....90.0%

Total 100.0%

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:** 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.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Avoid inhaling dust. 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 gloves, shoes plus socks and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). 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.

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.

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, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 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.

Non-Agricultural Use Requirements

These requirements 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, forest, nurseries, or in greenhouses. Do not allow children or pets on treated areas until granules are washed to the soil surface and grass is dry.

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 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. When a rate range is given, use the lower rate for a preventive program under low disease pressure conditions or on lighter soils (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

Root/Stem Rot (*Rhizoctonia spp.*)
Damping Off (*Pellicularia filamentosa*)
Neck Dry Rot (*Stromatinia gladioli*)
Bulb/Stem Rot (*Sclerotium rolfsii*)
Crown Rot (*Pellicularia rolfsii*)
Black Rot (*Sclerotinia sclerotiorum*)
Bulb Dry Rot (*Sclerotinia gladioli*)
Petal Blight (*Ovulinia azaleae*)
Flower Blight (*Sclerotium camelliae*)
Needle Blight (*Dothistroma pini*)

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 spreader such as "Gandy". For proper granule application, refer to your spreader "Operational Manual". Other uses on this label recommend the premixing 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.

TABLE 1

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 AND METHOD
Foliage plants such as: Aglaonema, Ajuga, Anthurium, Aphelandra, Caladium, Cissus, Dieffenbachia, Dracaena, Ficus, Fittonia, Gynura, Hoya, Maranta, Palms, Peperomia, Pothos, Schefflera, Schlumbergera, Spathiphyllum, Syngonium, Tradescantia & similar foliage plants	Root/Stem Rot, Damping Off (<i>Rhizoctonia</i> spp., <i>Pellicularia filamentosa</i>)	Broadcast: Apply 15 lbs / 1,000 sq. ft. of bed or bench area and thoroughly mix into the top 2 inches. One repeat application can be made 4-6 weeks after if necessary.
	Stem Rot (<i>Sclerotinia sclerotiorum</i>)	Broadcast: Apply 20 lbs of PCNB 10G / 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.
	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i> , <i>Pellicularia filamentosa</i> , <i>Sclerotinia sclerotiorum</i>)	**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> , <i>Pellicularia filamentosa</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.
	Stem Rot (<i>Sclerotinia sclerotiorum</i>)	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.
	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i> , <i>Pellicularia filamentosa</i> , <i>Sclerotinia sclerotiorum</i>)	**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</i> spp.)	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.		
Bulb Crops such as: Gladiolus, Hyacinths, Iris, Lilies (Asiatic, Easter, Oriental), Narcissus, Tulips	Root Rot (<i>Rhizoctonia</i> spp.) Crown Rot (<i>Pellicularia rolfsii</i>) Black 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 Black Rot control.
	Bulb/Stem Rot (<i>Sclerotium rolfsii</i>)	Apply 20 to 35 lbs per 1,000 sq. ft. Spread evenly to the soil surface and thoroughly mix into a depth of 2 to 3 inches of soil by discing or roto-tilling.
	Neck or Bulb Dry Rot (<i>Stromatinia</i> or <i>Sclerotinia gladioli</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	Stem/Root Rot (<i>Rhizoctonia</i> spp.)	Apply 26 lbs / 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</i> spp.) Needle Blight (<i>Dothistroma pini</i>)	Apply 8.5 lbs / 1,000 sq. ft. Mix granules into soil to give uniform coverage. Apply 1½ inches water / 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	Bulb Rot/Stem Rot (<i>Sclerotium rolfsii</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-day intervals.
Established plants: Azaleas, Camellia	Petal Blight (<i>Ovulinia azaleae</i>) Flower Blight (<i>Sclerotinia 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 plants such as: Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Peppers, Tomatoes	Root/Stem Rot, Damping Off (<i>Rhizoctonia solani</i> , <i>Pellicularia filamentosa</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.

FOR TURFGRASS

Used 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*)

Dollar Spot (*Sclerotinia homoeocarpa*)*

Leaf Spot/Melting Out (*Drechslera spp.*)

Gray Snow Mold (*Typhula spp.*)

Pink Snow Mold (*Microdochium nivale*)

*Do not use for Dollar Spot 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 in Table 2 for control of turfgrass diseases. Apply high rate when disease is severe and use low rate when disease pressure is light.

TABLE 2

Disease/Host	Amt/1,000 sq. ft.	HOW AND WHEN TO APPLY
Brown Patch (<i>Rhizoctonia solani</i>): St. Augustine, Bermuda grass & similar warm climate grasses	7 ½ 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 ½ lbs	Treat as above.
Bluegrass, Rye, Fescue, Bent & similar cool climate grasses	2 to 2½ 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/Melting Out (<i>Drechslera spp.</i>) Dollar Spot* (<i>Sclerotinia homoeocarpa</i>) *Do not use in California.	5 to 7 ½ lbs	For preventive, apply 5 lbs rate in Spring or Fall each year. If disease is present, apply the 7½ 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 spp.</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 6 lbs can be applied at 4-6 week intervals to maintain control when disease pressure is severe.

NOTE: PCNB 10G must be moved into the soil/thatch layer to be effective. Application must be followed by ¼ to ½ inches 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 conform 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.

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