

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D.C. 20460

EPA REGISTRATION NO.

5481-457

DATE OF ISSUANCE

MAR 20 1996

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

TURFPRO WSP TURF &
ORNAMENTAL SOIL FUNGICIDE

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Amvac Chemical Corp.
4100 East Washington Blvd.
Los Angeles, CA 90023

PM 75

5481-457

144

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA Section 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 5481-457" to your label before you release the product for shipment.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

RJA

DATE

MAR 20 1996

2 of 4

See ~~the~~ labeling furnished with this package for complete product Directions For Use.

IMPORTANT! Do not open this water soluble packet.
To use, simply add it directly to the spray or mix tank.
It is water soluble and will dissolve in the spray solution.

TURFPRO WSP

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

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

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA REG. NO. 5481- EPA EST NO. 61036-GA-1

AMVAC CHEMICAL CORPORATION

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

Net Weight 1 Pound

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 20 1996

Under the Federal Insecticide,
Fungicide and Herbicide Act
as amended, this pesticide
registered under EPA Reg. No.
5481-457

TURFPRO™

WSP - 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.

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

EPA Registration No. 5481-

EPA Establishment 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:** 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.

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. 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.

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 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 for exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval No. 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 No. prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval No. prefix TC-14G). 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

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 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.

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: coveralls, 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. Improper disposal of excess pesticide, spray mixture, or rinsate 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. (Turfpro, PM5 / 01-15-96)

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

For best results use TURFPRO 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	Amt./Gals. water per 1,000 Sq. Ft.	How and When to Apply
Brown Patch (<i>Rhizoctonia solani</i>) St. Augustine, 1 lb/10-15 Gals. Bermudagrass and similar warm season grasses	1 lb/40 Gals.	Apply once in Spring or Fall or when disease appears. If it is severe or reappears, retreat 3 to 4 weeks later.
Dichondra	1 lb/40 Gals.	Treat as above.
Bluegrass, Rye, Fescue, Bent and similar cool season grasses	3-4 oz/3-6 Gals.	Apply at 1st sign of disease. Repeat every 7-10 days during warm damp weather.
Helminthosporium spp.* Leaf Spot Dollar Spot* (<i>Sclerotinia homoeocarpa</i>) *Do not use in California	7-10 oz/5-10 Gals.	For preventative apply in Spring or Fall of each year. If disease is present apply at 10 oz rate as soon as possible. If disease is severe or reappears retreat area 3 to 4 weeks later.
Gray Snow Mold (<i>Typhula</i> spp.)	8 oz/5-10 Gals.	1st treatment should
Pink Snow Mold		

ORNAMENTALS

Mixtures of TURFPRO 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.

Common Name	Fungi Name
Root and stem rots	- <i>Rhizoctonia</i> spp.
Botrytis storage rot	- <i>Botrytis</i> spp.
Neck dry rot	- <i>Stromatinia gladioli</i>
Bulb dry rot	- <i>Sclerotium gladioli</i>
Needle blight	- <i>Dothistroma pini</i>
Petal blight	- <i>Ovulinia azaleae</i>
Bulb and stem rot	- <i>Sclerotium rotsii</i>
Flower blight	- <i>Sclerotium cameliae</i>
Crown rot	- <i>Pellicularia rotsii</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, Fittonia, Gynura, Hoya, Peperomia, Pothos, 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 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 TURFPRO 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

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 (*Stromatinia* 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 rotsii*) 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 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% "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 "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 to 15 minutes in a solution containing 2 lbs. TURFPRO in 3.2 gallons of water. For Root Rot (*Rhizoctonia*) of Easter Lilies dip in a solution containing 4 to 6 lbs. TURFPRO 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.

IMPORTANT: PLEASE READ BEFORE USE 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 soil conditions.

(Application instructions) 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 (*Ovulinia azaleae*) on Azaleas and Camellia Flower Blight on Camellia 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.

Crown Rot and Black Rot on Iris, Hyacinth, Narcissus and Tulips use 3 1/4 to 6 1/2 lbs./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 rolfii*) on Dutch Iris 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 (*Stromatinia* 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 EMERGENCIES, PHONE 24 HOURS A DAY
TRANSPORTATION: CHEMTREC 1-800-424-9300
MEDICAL: HAZARD INFORMATION SERVICES (H.I.S.)
1-800-228-5635 Ext. 106

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. (TURFPRO.PM5/01-5-96)

NET WEIGHT 8 Ounces (or 1 lb.; or 2 1/2 lbs.) POUNDS

AMVAC CHEMICAL CORPORATION

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