

Reg # 5481-211

PM-25

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

APR 15 1994

H.R. McLANE
AMVAC CHEMICAL CORP.
4100 EAST WASHINGTON BLVD
LOS ANGELES, CA. 90023

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 12/14/93 in Response to PR Notice 93-7
EPA Reg. No. 5481-211
PCNB 10% GRANULES

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 subject to the comments reflected on the enclosed sheet. 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:

By the next label printing make all the specified changes to your labeling. 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 SoyCandla Ink on paper that
contains at least 50% recycled fiber

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Page 2

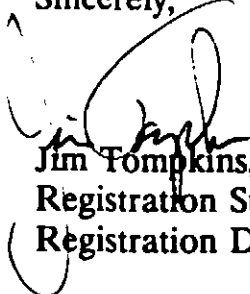
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LAB.-L)
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

AMVAC CHEMICAL CORP
5481-211 12/14/93
PCNB 10% GRANULES
Original Submission

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

You may delete the respirator statement added to your proposed label. It is not required for your product.

Remove the statement "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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), ~~notification to workers~~ and restricted-entry interval."

The bodywear requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Coveralls". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

SOIL FUNGICIDE

495

BEST AVAILABLE COPY CRUCIFERS

FOR CONTROL OF SOIL-BORNE DISEASES AS LISTED ON COTTON - BEANS - CRUCIFERS PEANUTS - POTATOES LAWNS and TURF ORNAMENTAL PLANTINGS

CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, AND BROCCOLI

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

Clubroot (*Plasmodiophora brassicae*): APPLY AS A PRE-TRANSPLANTING ROW TREATMENT - Apply 200 lbs. per 13,100 feet of row for Cabbage, Broccoli and Brussels Sprouts or to 10,900 linear feet of row for Cauliflower, in a 12 to 15 inch band. Apply and rotill the granules to a depth of 4 to 6 inches just before transplanting. TO APPLY AS A BROADCAST TREATMENT - Apply 300 lbs. per acre to the soil surface prior to transplanting, then disc the granules into the soil 4 to 6 inches deep. Thorough mixing with the soil will give best disease control. CAULIFLOWER: For control of Wire stem or Black Rot (*Corticium solani*) APPLY AS A BAND ROW TREATMENT - Apply 110 to 150 lbs. per 10,900 linear feet of row in an 8 inch wide band centered on the row, immediately before planting. For small areas use 12 lbs. per 1000 sq. ft. Mix granules into soil before planting to a depth of 2 inches.

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 immediately. IF ON SKIN: Remove contaminated clothing and wash affected area with soap & water. IF INHALED: Remove victim to fresh air. Apply artificial respiration if needed. Get medical attention.

PEANUTS

For Southern Blight (*Sclerotium rolfsii*) - AS A SURFACE BAND TREATMENT - Apply 100 lbs. per 12,400 linear feet of row, in an 8 to 12 inch wide band, centered on the row, at pegging time. - AS A PRE-PLANT SOIL TREATMENT apply 100 lbs./12,400 linear feet of row, in an 8 to 12 inch band, centered on the row. Mix to a depth of 2 to 4 inches. This should be done simultaneously with planting, using appropriate equipment. AS A SOIL MIX DURING CULTIVATION it may be applied in three split applications when cultivating the crop at the rate of 30 lbs. per 12,400 sq. ft. per treatment by attaching two delivery tubes per row ahead of inside cultivator sweeps (one on each side) and adjusted so as to treat a total band of 12 inches wide, centered on the row. Do not pile untreated soil on crown of plant. NOTE: Do not exceed 10 lbs. actual PCNB per acre in any one season, regardless of the application methods used. Do not feed treated vines to livestock. Do not allow hogging down of peanuts.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid inhaling dust. This product may cause skin irritation. Do not contaminate feed or foodstuffs.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washable PPE, use detergent and hot water. Keep and wash PPE separately from other laundry. A Dust/Mist filtering respirator (MSHA/NIOSH) approval number NIOSH TC 216.

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

This pesticide is toxic to fish and aquatic organisms. Cover or incorporate granules. Do not contaminate water when disposing of equipment washwaters. 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 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 plant food crops in PCNB treated fields within 12 months of broadcast application. Do not plant food crops in areas where PCNB is registered for use on those crops. For any questions, contact your State or Tribe, consult the Agency responsible for pesticide regulation.

IMPORTANT: Where minimum and maximum rates are given, use the lower rate for ops in sandy soils and when conditions are unfavorable for the development of disease. Use the maximum rate for heavy organic soils and when conditions are favorable for the disease such as moist conditions with warm days and cool nights.

AGRICULTURAL USE REQUIREMENTS

This product can be used in accordance with its labeling and with the Worker Protection Standard (WPS) for agricultural pesticides, 29 CFR 170.101-170.119. The standard contains requirements for the protection of agricultural workers from pesticide hazards, minimum PPE, and other safety requirements. It also contains specific instructions and safety requirements for the applicator. On the 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 indirectly. Only trained handlers may be in the area during application. Prohibit all worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Do not allow entry into 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 in long-sleeved shirt and long pants, waterproof gloves and 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: Completely empty...

POTATOES

Rhizoctonia solani - AS AN OVER-ALL BROADCAST TREATMENT - Apply 180 to 250 lbs. per acre over the soil surface prior to planting and thoroughly disc to a depth of 4 to 6 inches cross-discing if necessary. - AS AN IN-FURROW TREATMENT - Apply 100 lbs/12,400 linear feet of a 36 inch row by thoroughly working granules to a depth of 4 to 6 inches and into the tuber-forming area of the soil. It is best to apply when the soil is slightly moist.

IN LAWNS AND ORNAMENTAL TURF FOR BROWN PATCH (RHIZOCTONIA SOLANI)

SOUTHERN GRASSES - For St. Augustine, Bermuda, etc. and Dichondra - Apply 7 1/2 lbs./1,000 sq. ft. in the Fall or the Spring at the first sign of infection. Lightly sprinkle the area to wash the granules to soil level. An additional application in 3 to 4 weeks may be needed for continued control if heavy rainfall or flooding occurs after this treatment.

NORTHERN GRASSES - For Bluegrass, Fescue, Rye, Bent, etc. - Apply 2 to 2 1/2 lbs. per 1,000 sq. ft. when disease first appears and repeat at 7 to 10 day intervals during warm, damp weather. Lightly sprinkle the area to wash granules to soil level. During lush growing periods a temporary discoloration of the grass may occur, however, this is not harmful and will disappear in a few days.

ORNAMENTAL PLANTS BEDDING PLANTS

For African Violets, Begonias, Carnations, Chrysanthemums, Poinsettias, Snapdragons and similar bedding plants. Treat bench soil prior to planting with 15 lbs. granules / 1,000 sq. ft. for control of RHIZOCTONIA, STEM ROT. Thoroughly work into the top 2 inches of soil.

BULBS

For Tulips, Narcissus, Hyacinth, and Bulbous Iris in production - Apply 1,000 to 2,000 lbs. per acre to the soil as a pre-plant broadcast application for control of CROWN ROT and BLACK ROT. (Equivalent to 2.25 to 4.5 lbs./100 sq. ft.). Mix with the top 6 to 7 inches of soil with appropriate equipment. Use the higher rate in heavy organic soils and especially for the control of Black Rot.

CALENDULAS, LARKSPUR, SNAPDRAGON

For control of SCLEROTINA and STEM ROT. Apply 1,000 lbs./acre as a broadcast application 1 week before planting; (Equiv. to 2.25 lbs. per 100. sq. ft.). Mix with soil to a depth of 4 inches.

DUTCH IRIS

For Bulb and Stem Rot caused by *Sclerotium rolfsii* disease. Make a PRE-PLANTING BROADCAST SOIL APPLICATION of 1,000 to 1,500 lbs. per acre which is equivalent to 2.25 to 3.5 lbs./100 sq. ft. Mix the granules with the soil to a depth of 2 to 3 inches. FOR A ROW BAND TREATMENT apply 60 lbs. per 14,500 sq. ft. of linear row in a 12 inch band centered on the row.

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 immediately. IF ON SKIN: Remove contaminated clothing and wash affected area with soap & water. IF INHALED: Remove victim to fresh air. Apply artificial respiration if needed. Get medical attention.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid breathing dust. This product may cause skin irritation. Do not contaminate area of residence.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves and shoes. For sprayer use, wear a respirator. For granular application, wear a respirator. For dusting, wear a respirator. For all uses, wear eye protection and a hat. Do not eat, drink, or smoke while using this product. Do not use this product in a confined space. Do not use this product in a confined space. Do not use this product in a confined space.

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

This pesticide is toxic to fish and aquatic organisms. Cover or incorporate granules. Do not contaminate water when disposing of equipment washwaters. 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 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 to crops in PCNB treated areas within 12 months of Broadcast and banding applications. United PCNB is registered for use on these crops if any requirements beyond those of the State or Tribe control. User is responsible for pesticide regulation.

IMPORTANT: Where minimum and maximum rates are given, use the lower rate for crops in sandy soils and when conditions are unfavorable for the development of disease. Use the maximum rate for heavy organic soils and when conditions are favorable for the disease such as moist conditions with warm days and cool nights.

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, notification, 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 label 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 apply to crops in PCNB treated areas within 12 months of Broadcast and banding applications. United PCNB is registered for use on these crops if any requirements beyond those of the State or Tribe control. User is responsible for pesticide regulation.

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.

COTTON

For the control of Damping-off, Seed and Seedling Rots - APPLY AS AN IN-FURROW SOIL TREATMENT for Rhizoctonia solani. Apply 10 to 20 lbs. per acre as an in-furrow soil application which is equivalent to 1 to 2 lbs. per 1300 linear feet of row based on a 40 inch spaced row. By using suitable application equipment, apply over the seed and immediately cover with the seed at planting time. Do not allow livestock to graze or feed on cotton foliage in treated fields.

BEANS

Root and Stem Rot - Rhizoctonia solani: APPLY AS AN IN-FURROW SOIL TREATMENT - Apply 10 to 15 lbs. per 14,500 linear feet of row for Bush Beans or per 8,340 sq. ft. of row for Pole Beans. Apply over the seed at planting time in the furrow and immediately cover with soil utilizing appropriate application equipment. Do not feed treated vines to livestock.

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

FOR SOUTHERN GRASSES (SCLEROTIUM ROT) - AS A SURFACE BAND TREATMENT - Apply 100 lbs. per 12,400 linear feet of row, in an 8 to 12 inch wide band, centered on the row, at pegging time. - AS A PRE-PLANT SOIL TREATMENT apply 100 lbs./12,400 linear feet of row, in an 8 to 12 inch band, centered on the row. Mix to a depth of 2 to 4 inches. This should be done simultaneously with planting, using appropriate equipment. AS A SOIL MIX DURING CULTIVATION it may be applied in three split applications when cultivating the crop at the rate of 33 lbs. per 12,400 sq. ft. per treatment by attaching two delivery tubes per row ahead of inside cultivator sweeps (one on each side) and adjusted so as to treat a total band of 12 inches wide, centered on the row. Do not pile untreated soil on crown of plant. NOTE: Do not exceed 10 lbs. actual PCNB per acre in any one season, regardless of the application methods used. Do not feed treated vines to livestock. Do not allow hogging down of peanuts.

POTATOES

Rhizoctonia solani - AS AN OVER-ALL BROADCAST TREATMENT - Apply 180 to 250 lbs. per acre over the soil surface prior to planting and thoroughly disc to a depth of 4 to 6 inches cross-dicing if necessary. - AS AN IN-FURROW TREATMENT - Apply 100 lbs./12,400 linear feet of a 36 inch row by thoroughly working granules to a depth of 4 to 6 inches and into the tuber-forming area of the soil. It is best to apply when the soil is slightly moist.

IN LAWN AND ORNAMENTAL TURF FOR BROWN PATCH (RHIZOCTONIA SOLANI)

SOUTHERN GRASSES - For St. Augustine, Bermuda, etc. and Dichondra - Apply 7 1/2 lbs./1,000 sq. ft. in the Fall or the Spring at the first sign of infection. Lightly sprinkle the area to wash the granules to soil level. An additional application in 3 to 4 weeks may be needed for continued control if heavy rainfall or flooding occurs after this treatment.

NORTHERN GRASSES - For Bluegrass, Fescue, Rye, Bent, etc. - Apply 2 to 2 1/2 lbs. per 1,000 sq. ft. when disease first appears and repeat at 7 to 10 day intervals during warm, damp weather. Lightly sprinkle the area to wash granules to soil level. During lush growing periods a temporary discoloration of the grass may occur, however, this is not harmful and will disappear in a few days.

ORNAMENTAL PLANTS BEDDING PLANTS

For African Violets, Begonias, Carnations, Chrysanthemums, Poinsettias, Snapdragons and similar bedding plants. Treat bench soil prior to planting with 15 lbs. granules / 1,000 sq. ft. for control of RHIZOCTONIA, STEM ROT. Thoroughly work into the top 2 inches of soil.

BULBS

For Tulips, Narcissus, Hyacinth, and Bulbous Iris in production - Apply 1,000 to 2,000 lbs. per acre to the soil as a pre-plant broadcast application for control of CROWN ROT and BLACK ROT. (Equivalent to 2.25 to 4.5 lbs./100 sq. ft.). Mix with the top 6 to 7 inches of soil with appropriate equipment. Use the higher rate in heavy organic soils and especially for the control of Black Rot.

CALENDULAS, LARKSPUR, SNAPDRAGON

For control of SCLEROTINA and STEM ROT. Apply 1,000 lbs./acre as a broadcast application 1 week before planting; (Equiv. to 2.25 lbs. per 100. sq. ft.). Mix with soil to a depth of 4 inches.

DUTCH IRIS

For Bulb and Stem Rot caused by Sclerotium roffii disease. Make a PRE-PLANTING BROADCAST SOIL APPLICATION of 1,000 to 1,500 lbs. per acre which is equivalent to 2.25 to 3.5 lbs./100 sq. ft. Mix the granules with the soil to a depth of 2 to 3 inches. FOR A ROW BAND TREATMENT 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.

EASTER LILY

(LILIUM LONGIFLORIUM EXIMUM): For control of Rhizoctonia Root Rot - Apply AS A BROADCAST SOIL TREATMENT at the rate of 1,000 lbs. on light sandy soils and 2,000 lbs. per acre on heavy organic soils. Follow with a good double discing to mix granules with the soil to the depth of 6 to 7 inches.

GLADIOLUS

For Neck or Bulb Dry Rot caused by Stromatinia or Sclerotinia Gladioli - Apply 1,200 lbs. per acre (equivalent to 2 3/4 lbs. per 100 sq. ft.) AS A BROADCAST SOIL TREATMENT. Thoroughly mix with soil to depth of 4 to 6 inches. Corms may be planted immediately.

NOTICE: This product conforms to its chemical description and is reasonably fit for the purpose stated on the label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for use of product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes the risk of any such use. (211-WPS PM4/11-01-93)

EPA REG. NO 5481-211

EPA EST. 5481-CA-1

NET WEIGHT 50 POUNDS

BEST AVAILABLE COPY

AMVAC CHEMICAL CORPORATION

4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90022