

DEC - 4 1996

Mr. H. R. McLane  
Authorized Agent for Amvac Corp.  
H. R. McLane, Inc.  
7210 Red Road, Suite 206  
Miami, FL 33143

Dear Mr. McLane:

Subject: Change in Signal Word- Danger to Warning  
PCNB 2-E LIQUID  
EPA Reg. No. 5481-212  
Your submission dated Aug. 8, 1996

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable and a stamped copy is enclosed for your records.

Change the Precautionary Labeling as indicated in our review date Nov. 18, 1996 at the next printing of the label or within six months, whichever comes first.

Sincerely yours,

Robert J. Taylor  
Product Manager 25  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

**BEST AVAILABLE COPY**

**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 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 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 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.

**AS A SEED TREATMENT FUNGICIDE**

FOR Barley - Beans - Corn - Cotton - Peas - Sorghum - Soybeans - Rice - Oats - Safflower - Sugar Beets and Wheat. For Control of listed Smut diseases and Damping-off caused by Rhizoctonia.

**SEED TREATMENT**

Use PCNB 2-E LIQUID with suitable liquid or slurry type seed treating equipment such as Panogen or Mist-O-Matic and apply at the rates as indicated below. Seed to be used for planting should be sound, fully cured, cleaned and have an excellent germination record. Use the following seed treatment rates per 100 lbs. of seed.

**IMPORTANT**

The "Seed Treater" is responsible for the use of an approved seed treater Dye in the discoloration of seed that is to be treated and sold for further sales in interstate commerce. The Federal Government and most States have seed laws or regulations that require treated seed to be "tagged" with an appropriate caution statement such as the following and as found at the bottom of this column for TREATED SEED. Check with such Agencies before release of treated seed.

**Limited Warranty Notice - Read Carefully**

The treatment of poor quality or mechanically damaged seed, except for the curative control of existing diseases, may result in reduced germination and/or reduction of seed or seedling vigor. To avoid these results, first conduct germination tests on small portions of such treated seed before treating the entire lot. Due to seed conditions beyond our control no claims can be made to guarantee the germination of "carry-over" or such "damaged or low vigor" treated seed.

**HOW TO APPLY**

Apply PCNB 2-E LIQUID undiluted to the seed directly from the drum at recommended rates. If desirable add one part water to five parts PCNB 2-E LIQUID. Make sure to recalibrate equipment to deliver the recommended rate of PCNB 2-E LIQUID per 100 lbs of seed. Refer to following chart. \*\*Use highest rate for pathologically infected seed and when conditions are known to favor the development of soil-borne diseases. \*\*\* For Cotton use the lower rate for acid delinted; the higher rate for mechanically delinted. \*\*\*\* Not for use on Corn, Rice or Safflower in California.

Seeds to be Treated	(fl.oz.) Rates per 100 lbs. of Seed**	Seedling Disease Complex Controlled
Barley	4.20 to 8.40	Covered Smut
Beans	3.35	Rhizoctonia & Fusarium
Corn****	3.35	
Cotton***	12.0 to 16.20	
Peas	3.35 to 6.70	
Sorghum	1.95	
Soybeans	3.35 to 6.70	
Rice****	4.45 to 8.90	Oat Smut
Oats	6.13 to 12.26	
Safflower****	1.95 to 3.90	Seed-borne rust.
Sugar Beets	6.13 to 12.0	Rhizoctonia & Fusarium
		Rhizoctonia & Fusarium
Wheat	3.35	Common Smut or Bunt Rhizoctonia & Fusarium

**TREATED SEED:** This seed has been treated with PENTACHLORONITROBENZENE (PCNB) FUNGICIDE. Do not use for Food, Feed or Oil Purposes.

# PCNB 2-E LIQUID

## EMULSIFIABLE CONCENTRATE

A SOIL FUNGICIDE FOR CONTROL OF SOIL-BORNE DISEASES AS LISTED ON COTTON - BEANS - GARLIC - PEANUTS - POTATOES and FOR SEED TREATMENT

ACTIVE INGREDIENT: Pentachloronitrobenzene(PCNB)- - - 24.0%  
 INERT INGREDIENTS:- - - - - 76.0%  
 TOTAL 100.0%

Contains 2 pounds of PCNB per Gallon \*Contains Aromatic Petroleum Solvent

### KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

**STATEMENTS OF PRACTICAL TREATMENTS**

**IF IN EYES:** Immediately flush eyes with plenty of water. Get medical attention immediately. **IF SWALLOWED:** Call a physician or Poison Control Center immediately. Do not induce vomiting unless under the supervision of a physician. \*Vomiting may cause aspiration pneumonia. This product contains an aromatic solvent. **IF ON SKIN:** Wash affected area with soap and water. Get medical attention if irritation persists. **IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING:** May be fatal if swallowed, inhaled or absorbed through the skin. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Do not breathe the vapors. Avoid breathing vapors or spray mist. Use with adequate ventilation. Do not contaminate feed or foodstuffs.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category (G) on an EPA chemical resistance category selection chart. **Applicators and other handlers** must wear: Coveralls over long sleeved shirt and long pants. Chemical Resistant gloves such as barrier laminate or Viton; Chemical-resistant footwear plus socks; Protective eyewear; Chemical-resistant headgear for overhead exposure; Chemical-resistant apron when cleaning equipment, mixing, or loading; For exposures outdoors a Dust/Mist filtering respirator (MSHA/NIOSH) approval number: prefix TC-21(C); For exposures in enclosed areas, a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23(C)), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14(C)).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 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. 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. Do not contaminate water when disposing of equipment washwaters. Do not apply directly adjacent to potable water supplies.

**CHEMICAL AND PHYSICAL HAZARDS**

Flammable. Keep away from heat and open flame.

See Side/Back Panel for Additional Precautionary statements  
 EPA Reg. No. 5481-212 EPA Est. No. 5481-CA-1

**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 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.

\*\*Not for use in California on Garlic or for postplant applications on Snap or Dry Beans to control white mold (sclerotinia sclerotium).

**AMVAC CHEMICAL CORPORATION**  
 4100 EAST WASHINGTON BLVD.  
 LOS ANGELES, CA. 90023 U.S.A.

**BEST AVAILABLE COPY**

ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated

DEC - 4 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

5481-212

Do not contaminate water, food or feed by storage, dry, locked place out of reach of children. Protect from wastes are toxic. Improper disposal of excess pesticide cannot be disposed of by use according to label instructions or the Hazardous Waste representative at the nearest (or equivalent). Then offer for recycling or reconditioning procedures by State and local authorities.

For Damping-Off caused by Rhizoctonia solani 1 gallon for organic soils per acre in a minimum 40 inch spacing. Direct the spray toward livestock to graze or feed on cotton foliage.

For Root and Stem Rot caused by Rhizoctonia solani 8 to 10 gallons of water and apply to 14,500 linear feet of row. Direct the spray to the base of planting furrow. Do not directly spray bare seed since delays 3 to 4 plints in 8 to 10 gallons of water and apply BEANS. Direct the spray to the furrow and to light soils. Do not apply to bare seed.

**SNAP**

For White Mold caused by Sclerotinia sclerotium band centered on the row, immediately after 40 inches of water to treat 14,500 linear feet of row for use in California, on front panel.) Avoid application directly to seed since delay herbicides are used, add 1 gallon of this simultaneously. If disease is severe additional 2 nozzles per row and directing the spray to 14,500 linear feet of row based on a 40 inch spacing. Do not feed treated vines to livestock.

For White Rot caused by Sclerotium cepivorum mixed in 100 gallons of water and apply at a spacing is 24 inches. This rate is equivalent to 15 gallons of water per 12,400 linear feet of row. Utilize an appropriate spray rig attached to the planting furrow. Direct the front nozzle to the front of the planter and the rear nozzle to treat the back of the planter.

For "Damping-Off" caused by Rhizoctonia solani 2-E LIQUID and in organic soils use 1 gallon for 13,000 linear feet of row based on a 40 inch spacing at planting time. Do not allow livestock to graze or feed on cotton foliage.

For Rhizoctonia solani AS A PRE-PLANTING treatment, mix with sufficient water to total 25 gallons and thoroughly disc to a depth of 4 inches by 15 gallons of water per 12,400 linear feet of row ahead of the furrow opening disc with two 15" discs in the rear. Select nozzles that will deliver the desired planting speed and pressure.

FOR THE FOLLOWING TRANSPORTATION: CHEMICAL MEDICAL: HAZARD INFORMATION

(212-amd6.PMS 1 Acctpt02-10-85Amc)

**BEFORE USE**  
 (a) LIMITED WARRANTY: (b) This description on its label; (c) this subject to the inherent risks referred to (c) that the directions, warnings, responsible experts' evaluations of risks and plants, of residues on food crops, and weather and crop conditions. herein, Amvac neither makes nor make, any other warranty, express or implied warranties of merchantability, or performance. This warranty does not cover loss or damage which results from failure to follow this label's directions, warnings

ability for any claim, loss, damage, whether or not based in contract, at Amvac's option, to replacement product with respect to which damages are special, indirect, or consequential

**FUNGICIDE**  
 Beans - Rice - Oats - Sorghum - Sugar Cane - Corn - Cotton - Tobacco  
 Damping-off caused by Rhizoctonia solani  
 Seed treating equipment such as seeders, drills, and planters. Seed to be used for planting and germination record. Use the product in accordance with the directions on the label.  
 Do not use on seed treated with Dye in the discoloration test. Do not use on seed treated with Dye in interstate commerce. The Federal regulations that require treated seed to be labeled and as found at the bottom of the seed before release of treated seed.  
**Use Carefully**  
 Do not use on seed treated with Dye, except for the curative control of damping-off of seed or seedling vigor. Do not use on seed treated with Dye for control no claims can be made for seed treated with Dye or low vigor treated seed.

Use at recommended rates. If necessary, make sure to recalibrate equipment. Do not use more than 100 lbs of seed. Refer to following directions when conditions are known to favor damping-off for acid delinted; the following crops: Rice or Sorghum in California.

Disease	Controlled
mut	
a & Fusarium	
a rust.	
a & Fusarium	
a & Fusarium	
mut or Bunt	
a & Fusarium	
been treated with	
FUNGICIDE,	
poses.	

# PCNB

## 2-E LIQUID

### EMULSIFIABLE CONCENTRATE

A SOIL FUNGICIDE FOR CONTROL OF SOIL-BORNE DISEASES AS LISTED ON COTTON - BEANS - GARLIC - PEANUTS - POTATOES and FOR SEED TREATMENT

ACTIVE INGREDIENT:	
Pentachloronitrobenzene (PCNB)-	24.0%
INERT INGREDIENTS:*	76.0%
TOTAL	100.0%

Contains 2 pounds of PCNB per Gallon \*Contains Aromatic Petroleum Solvent

### KEEP OUT OF REACH OF CHILDREN

### WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**IF IN EYES:** Immediately flush eyes with plenty of water. Get medical attention immediately. **IF SWALLOWED:** Call a physician or Poison Control Center immediately. Do not induce vomiting unless under the supervision of a physician. Vomiting may cause aspiration pneumonia. This product contains an aromatic solvent. **IF ON SKIN:** Wash affected area with soap and water. Get medical attention if irritation persists. **IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**WARNING:** May be fatal if swallowed, inhaled or absorbed through the skin. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors. Avoid breathing vapors or spray mist. Use with adequate ventilation. Do not contaminate feed or foodstuffs.

**PERSONAL PROTECTIVE EQUIPMENT**  
 Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category (G) on an EPA chemical resistance category selection chart.  
**Applicators and other handlers** must wear: Coveralls over long sleeved shirt and long pants. Chemical Resistant gloves such as barrier laminate or Viton; Chemical-resistant footwear plus socks; Protective eyewear; Chemical-resistant headgear for overhead exposure; Chemical-resistant apron when cleaning equipment, mixing, or loading; For exposures outdoors a Dust/Mist filtering respirator (MSHA/NIOSH) approval number 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 number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).  
**Discard clothing** and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 product. Wash the outside of gloves before reusing. As soon as possible, wash thoroughly and change clothing.

**ENVIRONMENTAL HAZARDS**  
 This pesticide 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. Do not contaminate water when disposing of equipment washwaters. Do not apply directly adjacent to potable water supplies.  
**CHEMICAL AND PHYSICAL HAZARDS**  
 Flammable. Keep away from heat and open flame.

See Side/Back Panel for Additional Precautionary statements  
 EPA Reg. No. 5481-212 EPA Est. No. 5481-CA-1

**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 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.

\*Not for use in California on Garlic or for postplant applications on Snap or Dry Beans to control white mold (Sclerotinia sclerotiorum).

**AMVAC CHEMICAL CORPORATION**  
 4100 EAST WASHINGTON BLVD.  
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**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 over long sleeved shirt and long pants; Chemical-resistant gloves such as barrier laminate or Viton; Chemical resistant footwear plus socks and Protective eyewear.

**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. Protect from temperatures below 32 degrees F. **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:** 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.

**COTTON**  
 For Damping-Off caused by Rhizoctonia solani AS A ROW TREATMENT use 1/2 gallon for sandy soil and 1 gallon for organic soils per acre in a minimum of 15 gallons of water for 13,000 linear feet of row based on a 40 inch spacing. Direct the spray toward the seed and surrounding soil at planting time. Do not allow livestock to graze or feed on cotton foliage in PCNB treated fields.

**BEANS**  
 For Root and Stem Rot caused by Rhizoctonia solani AS A FURROW TREATMENT apply 2 to 3 quarts mixed in 8 to 10 gallons of water and apply to 14,500 linear feet of BUSH BEANS or 8,340 linear feet of POLE BEANS. Direct the spray to the base of planting furrow in front of seed drop and to the covering soil at planting time. Do not directly spray bare seed since delayed emergence may result. IN CALIFORNIA and ARIZONA use 3 to 4 quarts in 8 to 10 gallons of water and apply to the same linear feet as above indicated for BUSH and POLE BEANS. Direct the spray to the furrow and to the covering soil at planting time. Use the lower rates for sandy and light soils. Do not apply to bare seed.

**SNAP & DRY BEANS \*\***  
 For White Mold caused by Sclerotinia sclerotiorum apply AS A BAND ROW TREATMENT in an 8 inch wide band centered on the row, immediately after or at the time of planting by using 1 gallon mixed in 8 to 10 gallons of water to treat 14,500 linear feet of row for BUSH BEANS or 8,340 linear feet for POLE BEANS (\*\*See: Not for use in California, on front panel.)  
 Avoid application directly to seed since delayed emergence may occur. When Dintro type pre-emergence herbicides are used, add 1 gallon of this product to the final spray mix of the herbicide and apply simultaneously. If disease is severe additional applications may be made at 2 to 3 week intervals using 1 or 2 nozzles per row and directing the spray to the soil at the base of the plants. Apply at the same rate using 1 gallon in 8 to 10 gallons of water to treat 14,500 linear feet of row. Do not apply after the first blooms appear. Do not feed treated vines to livestock.

**GARLIC \*\***  
 For White Rot caused by Sclerotium cepivorum. AS A FURROW TREATMENT use 10 gallons of this product mixed in 100 gallons of water and apply at planting time to 21,800 linear row feet per acre when crop row spacing is 24 inches. This rate is equivalent to 58.7 oz. of PCNB 2-E LIQUID per 1,000 linear feet of row. Utilize an appropriate spray rig attached to the planter and spray 8 to 12 inch wide bands using 2 nozzles per planting furrow. Direct the front nozzle to treat the bottom of the open furrow and the seed as it is dropped from the planter and the rear nozzle to treat the soil as the seed is covered. (\*\*See: Not for use in California, on front panel.)

**PEANUTS**  
 For "Damping-Off" caused by Rhizoctonia solani. As a row treatment in sandy soils use 1/2 gallon of PCNB 2-E LIQUID and in organic soils use 1 gallon PCNB 2-E LIQUID per acre in a minimum of 15 gallons of water for 13,000 linear feet of row based on a 40 inch row spacing. Direct the spray toward the seed and surrounding soil at planting time. Do not allow livestock to graze or feed in PCNB treated fields.

**POTATOES**  
 For Rhizoctonia solani AS A PRE-PLANTING BROADCAST SOIL TREATMENT use 9 to 12 1/2 gallons per acre mixed with sufficient water to total 25 gallons of finished spray. Apply to the soil surface prior to planting and thoroughly disc to a depth of 4 inches by cross discing. Attach a harrow on the last discing. It is desirable to make this treatment when the soil is slightly moist. AS A FURROW TREATMENT use 5 gallons mixed in 15 gallons of water per 12,400 linear feet of row. Using three nozzles per row place the front "Fan" type nozzle ahead of the furrow opening disc with two "Cone" type nozzles placed above and slightly ahead of the closing discs in the rear. Select nozzles that will deliver about 1/3 of the spray mix per acre through each nozzle at the desired planting speed and pressure.

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

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