



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

NOV 28 2003

Mr. Darryl E. Brock
AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1250
Newport Beach, CA 92660

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: PCNB 2-E LIQUID Emulsifiable Concentrate
EPA Registration Number 5481-212
Your Amendment dated August 15, 2003

Dear Mr. Brock:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted provided the following changes are made:

1. On page 4, in the third paragraph, change "caution" to "precautionary".
2. On page 4, change the statement "Treated Seed" to "Treated Seed must be labeled with the following information":
Also in the next sentence, add quotation marks as follows: "This seed has been treated with Pentachloronitrobenzene (PCNB) FUNGICIDE. Do not use for Food, Feed or Oil Purposes."
3. On page 4, in the Storage and Disposal Box, change the subheading "Storage" to "Pesticide Storage".

When making future labeling amendments, please use a larger font for your draft labels. The Agency must ensure that it has reproducible documents in its files.

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A stamped copy of the label is enclosed for your files. You must submit one copy of the final printed label prior to releasing the product for shipment. If you have questions about this letter, please contact Summer Gardner-Jenkins of my staff at (703) 308-9353.

Sincerely,



Mary L. Waller
Product Manager 21
Fungicide Branch
Registration Division (7505C)

Enclosure: stamped label

PCNB 2-E LIQUID EMULSIFIABLE CONCENTRATE

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5481-212

**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.)

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
Transportation: CHEMTREC.....	1-800-424-9300
Other: AMVAC.....	1-323-264-3910

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-212
EPA Est. No. 5481-CA-1

Net Weight:
As Marked on Container



4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A
1-323-264-3910 • www.amvac-chemical.com

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 (PPE)

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
- **For exposures outdoors:** Dust/Mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.
- **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), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

USER SAFETY REQUIREMENTS

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

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 cleaning equipment or disposing of equipment washwaters. Do not apply directly adjacent to potable water supplies.

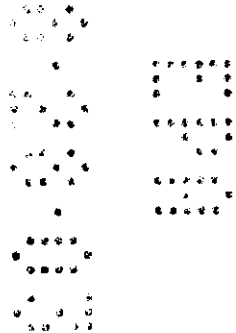
PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

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. 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.



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, 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
- Protective eyewear.

COTTON

For Damping-off caused by *Rhizoctonia solani*: As a row treatment use ½ 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 pints 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. *Not for use in California

Avoid application directly to seed since delayed emergence may occur. When Dinitro 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 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. *Not for use in California

PEANUTS

For Damping-off caused by *Rhizoctonia solani*: As a row treatment in sandy soils use ½ gallon of PCNB 2-E LIQUID and in organic soils use 1 gallons 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 ½ 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.

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.

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 the 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	Rates per 100 lbs. of Seed (fl. oz.) **	Seedling Disease Complex Controlled
Barley	4.20 to 8.40	Covered Smut
Beans	3.35	<i>Rhizoctonia & Fusarium</i>
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	
Oats	6.13 to 12.26	Oat Smut
Safflower****	1.95 to 3.90	Seed-borne rust. <i>Rhizoctonia & Fusarium</i>
Sugar Beets	6.13 to 12.0	<i>Rhizoctonia & Fusarium</i>
Wheat	3.35	Common Smut or Bunt <i>Rhizoctonia & Fusarium</i>

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

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. Protect from temperatures below 32° F.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate 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 procedures approved by state and local authorities.

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" of such "damaged or low vigor" treated seed.

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.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES 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 THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT, SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

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