

Alice C. Farmer
Riverside Chemical Company
Subsidiary of Terra Chemicals International, Inc.
P.O. Box 171376
Memphis, TN 38117

Dear Dr. Farmer:

Subject: EPN Label Revision
EPN 4
EPA Registration No. 9779-32
Your Letter of February 20, 1984

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

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

RD:DCR-28490:Ellenberger:tar:Raven:557-2226:RD-10:3/22/84:Del.4/11/84


CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

9779-32

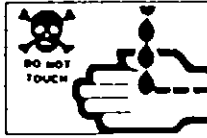
RESTRICTED USE PESTICIDE
 For retail sale to and use only by Certified Applicators or persons under their supervision and only for those uses covered by the Certified Applicator's label.

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




DO NOT SWALLOW

CAN KILL IF SWALLOWED
 This product can kill you if swallowed, even in small amounts. Spray mist may be fatal if swallowed.



DO NOT TOUCH

CAN KILL BY SKIN CONTACT
 This product can kill you if touched by hands or soiled or splashed on skin, in eyes or on clothing (liquid goes through clothes).



DO NOT BREATHE

CAN KILL IF BREATHED
 This product can kill you if you inhale or spray mist is breathed.

PROTECTIVE CLOTHING REQUIRED
 Wear clean, protective clothing, goggles, and respirator approved by NIOSH or the American National Standards Institute when applying or handling, or when reentering fields within at least 24 hours of treatment. The following protective clothing must be worn: lightweight, unlined, natural rubber gloves at least midforearm in length, a wide brimmed waterproof hat or waterproof hood, a protective suit or coveralls of a nonpermeable non-cloth material covering the body from ankles to wrists, lightweight, unlined, natural rubber boots at least midcalf in length. Full-face respirators are recommended; half-face respirators and goggles are required. Aerial applicators in positive pressure cockpits and other applicators in comparable ground equipment with appropriate filters at all air intakes need not comply with these protective clothing requirements.

PROTECTION OF FLAGGERS
 For aerial applications, flagging must be by fully automated mechanical means or by working in totally enclosed vehicles.

WORK SAFETY RULES
 Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by workers or other persons.
 Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. Call a doctor (physician), clinic or hospital—immediately. Explain that the victim has been exposed to EPN and describe his condition. After first aid is given (see Statement of Practical Treatment) and if a doctor cannot come, take victim to clinic or hospital.
HAZARDOUS! Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before smoking, eating or drinking.
AFTER WORK, take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirator should be cleaned and filter replaced according to instructions included with respirator.

POISON SIGNS (Symptoms)
 EPN is a very dangerous poison. If rapidly enters the body or contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.
 Some of the signs and symptoms of poisoning are: headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooping or twitching of mouth and nose, muscle spasms and coma.

NOTE TO PHYSICIAN
 Antidote—administer atropine sulfate in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2 mg of chlorzoxazone is also analgesic and may be administered in conjunction with atropine. DO NOT GIVE MORPHINE OR TRANQUILIZERS. EPN is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. All first signs of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal reactions have been reported after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

POST TREATED AREA
 Consult your State Agricultural Extension Service or Experiment Station regarding post-treatment areas.

ENVIRONMENTAL HAZARDS
 This product is toxic to fish, birds and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops and weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS
 Do not use, pour, spill, or store near heat or open flame.




AN EMULSIFIABLE CONCENTRATE CONTAINING 4 POUNDS OF EPN FOR THE CONTROL OF CERTAIN INSECT PESTS OF CERTAIN FRUITS (APPLES, APRICOTS, CHERRIES, CITRUS, GRAPES, NECTARINES, PEACHES, PLUMS, AND WALNUTS) AND CERTAIN FIELD CROPS (BEANS, CORN,

ACTIVE INGREDIENTS:	
O-ethyl O-p-nitrophenyl phenylphosphonothioate*	46
Aromatic Petroleum Solvent	44
INERT INGREDIENTS	9
Total 100	
*EPN Contains 4 pounds EPN per gallon	

STOP--READ LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**DANGER
 PELIGRO
 POISON
 VENENO**



STATEMENT OF PRACTICAL TREATMENT

FIRST AID TREATMENT +
 Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion-methyl parathion and describe his condition.
IF BREATHING HAS STOPPED, start artificial respiration immediately and maintain until a doctor arrives.
IF SWALLOWED, call a physician or poison control center. Drink 1 or 2 glasses of water to help flush out the poison. Do not induce vomiting by touching back of throat with finger, or, if available, by administering ipecac. **DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM.**
IN CASE OF CONTACT, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. See doctor immediately.
SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA REG. NO. 9779-32 EPA EST. NO. 9779-32

NET CONTENTS 30 GALLONS

MANUFACTURED BY
RIVERSIDE CHEMICAL CO.
 A SUBSIDIARY OF TERRA CHEMICALS INTERNATIONAL, INC.
 PO BOX 1821, SIOUX CITY, IOWA 51102
 RIVERSIDE SERVES AGRICULTURE - AGRICULTURE SERVES EVERYONE

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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 when weather conditions favor drift from treated areas.

RE-ENTRY STATEMENTS

Do not enter treated areas for 24 hours unless appropriate protective clothing is worn. See "PROTECTIVE CLOTHING REQUIRED" section under "PRECAUTIONARY STATEMENTS" in full label panel. Because certain states may require more restricted re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

NOTICE TO CROP OWNERS

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. In case of accidental exposure, follow the information given under "STATEMENT OF PRACTICAL TREATMENT" and have exposed person(s) see a physician. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

ANGER

Area treated with EPN on (date). Do not enter without appropriate protective clothing for 24 hours. In case of accidental exposure, immediately remove contaminated clothing, wash the affected area, contact your supervisor, and have him take you to the doctor.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

STORAGE

Store in a dry location away from children, animal foods, feeds, seeds, and other agricultural chemicals.

Keep container closed when not using. Do not allow water into container as this may cause deterioration of product.

Handle in accordance with information given under "PRECAUTIONARY STATEMENTS."

Do not store under conditions where temperatures may exceed 120° F or below -45° F.

Keep storage area locked when not in use.

In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. SCRAPE UP and dispose of in accordance with information given under "PESTICIDE DISPOSAL." Repackage and relabel useable product in a sound container of a type approved by the U.S. Department of Transportation.

In case of fire or other emergency, report at once by toll free telephone to 800-424-9300.

DISPOSAL

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue 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 purchase and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

GENERAL INFORMATION

Where a dosage range is given, use the lower rate for small or young plants or with light insect infestations; use the higher rate on large or mature plants or with heavy insect infestations.

The hazards and precautions for handling RIVERSIDE EPN 4 in this container are equally applicable to a larger container with water for spray application.

READ ENTIRE LABEL BEFORE USING THIS PRODUCT. Use of this product in a manner not in accordance with the information on this label may injure or kill humans, domestic animals, wildlife, aquatic life, desirable plants, create excessive and unwanted chemical residues, or produce other undesirable results.

FRUIT AND NUT CROPS

RIVERSIDE EPN 4 is useful for the control of certain insect pests of almonds, apples, apricots, cherries, citrus, grapes, nectarines, peaches, pears, pecans, plums, and walnuts.

RIVERSIDE EPN 4 will normally be applied to fruit and nut fields by high pressure hydraulic orchard type spray equipment. The use of concentrations of RIVERSIDE EPN 4 greater than recommended by conventional hydraulic sprayers increases the hazards of use. If higher concentrations are employed with equipment such as Speed Sprayers, the most rigid precautions to avoid contact with the spray mixture must be followed. The use of RIVERSIDE EPN 4 in mist blower or thermal aerosol type (fog) equipment is not recommended.

Treatment should begin with the first signs of infestation (or fruits begin with the first olive spray following bloom). Apply one spray and retreat as necessary. Do not apply during bloom of fruits or later than the following number of days prior to picking, or using, citrus—30 days, other fruits and nuts—21 days.

For control of mites (Red Spider, European Red, Pacific Two-spotted, Whiteleg and Schoene) on almonds, apples, cherries, grapes, peaches, pears, pecans, plums, prunes, and walnuts apply 1/2 pint to 3/4 pint of RIVERSIDE EPN 4.

For insect control on apricots, cherries, peaches, plums and prunes apply 1/2 pint to 3/4 pint of RIVERSIDE EPN 4 for Plum Curculio and Oriental Fruit Moth; for Peach Tree Borer and Lesser Peach Tree Borer apply 1/2 to 1 1/2 pints; for Lecanium Scale (crawlers) and Peach Cottony Scale (crawlers) apply 1/2 pint; for Fruit Tree Leafroller on cherries and Budmoth on prunes apply 1/2 pint.

For insect control on apples and pears apply 1/2 pint to 3/4 pint of RIVERSIDE EPN 4 for Plum Curculio; for Codling Moth apply 1/2 pint; for Fruit Tree Leafroller apply 1/2 pint; for Pear Psylla apply 1/2 pint. Do not use on McIntosh and related varieties of apples.

For insect control on walnuts apply 1/2 pint of RIVERSIDE EPN 4 for Codling Moth and Walnut Aphid; for Fruit Tree Leafroller apply 1/2 pint.

For insect control on grapes and pecans apply 1/2 pint of RIVERSIDE EPN 4 for Grape Berry Moth; for Pecan Nut Casebearer apply 1/2 pint. Do not graze livestock in treated pecan groves.

For insect control on citrus fruits apply 2 1/2 pints to 3 pints of RIVERSIDE EPN 4 for Orangeworm; for Citrus Thrips apply 3 to 4 pints per acre—outside coverage; for Fruit Tree Leafroller and Orange Tortix apply 1 1/2 to 4 1/2 pints per acre.

The above figures for amounts of RIVERSIDE EPN 4 to apply are per 100 gallons of spray as applied by high pressure hydraulic equipment.

Do not use RIVERSIDE EPN 4 in combination with Boronous or zinc sulfate—lime sprays.

Do not use RIVERSIDE EPN 4 in home plantings.

Do not apply when trees or a substantial number of weeds in the orchard grove are in bloom.

FIELD CROPS

RIVERSIDE EPN 4 is useful for the control of certain insect pests of beans, corn, cotton and tomatoes.

RIVERSIDE EPN 4 may be applied by ground sprayers or by airplanes, mixing the RIVERSIDE EPN 4 in water to form an emulsion spray solution. To make the spray solution, first fill the spray tank with water, agitate, add the proper amount of RIVERSIDE EPN 4, and then fill the spray tank with water while still agitating. Continue to agitate during use.

When applying to field crops by ground sprayers calibrate so as to apply the recommended amount of RIVERSIDE EPN 4 in not less than 3 gallons of water per acre. Airplanes should apply the recommended amount of RIVERSIDE EPN 4 in not less than 1 gallon of water per acre. Always use sufficient water for adequate coverage of the crop foliage.

BEANS: For control of Mexican Bean Beetle make two to four applications of 1/4 to 1/2 pint of RIVERSIDE EPN 4 per acre per application after eggs are laid. Do not apply RIVERSIDE EPN 4 to beans within 21 days of harvest.

CORN: For control of European Corn Borer on sweet corn apply 1/2 pint of RIVERSIDE EPN 4 per acre 5 to 7 days after eggs are laid, repeat 7 to 10 days later and at intervals of 5 to 7 days during periods when moths are actively depositing eggs.

For control of European Corn Borer in field corn apply 1/2 pint of RIVERSIDE EPN 4 per acre 10 days after eggs first hatch or when 75% of plants show evidence of feeding in leaf whorls, repeat 7 to 10 days later if new evidence of leaf feeding is present. For second brood borers, apply when eggs begin to hatch.

Do not apply RIVERSIDE EPN 4 to corn within 14 days of harvest. Do not apply to corn during the polished period if bees are visiting the treated area.

COTTON: For control of Cotton Fleahopper, Cotton Leafworm, Thrips, Yellow striped Armyworm and Red Spider Mites apply 1/2 to 1 pint of RIVERSIDE EPN 4 per acre per application; for control of Boll Weevil apply 1 to 1 1/2 pints per acre; for control of Bollworm or Tobacco Budworm apply 2 pints per acre.

Do not apply RIVERSIDE EPN 4 within 3 days of handpicking or harvest. Do not apply to blossoming cotton if bees are visiting the treated area.

TOMATOES: For control of Tomato Aphid, Serpentine Leaf Miner, Southern Armyworm, and Tomato Fruitworm apply 1/4 to 1/2 pint of RIVERSIDE EPN 4 per acre per application at 7 to 10 day intervals as needed.

Do not apply RIVERSIDE EPN 4 later than 3 days before harvest.

NOTICE

RIVERSIDE CHEMICAL COMPANY warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to RIVERSIDE CHEMICAL COMPANY, and buyer assumes the risk of any such use. RIVERSIDE CHEMICAL COMPANY shall not be responsible for incidental or consequential damages of any resulting from a breach of warranty.



POISON

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ORGANOPHOSPHORUS PESTICIDE, MIXTURE, LIQUID POISON B, UN2783

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