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RESTRICTED USE PESTICIDE
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

VELSICOL

EPN 4EC

EMULSIFIABLE INSECTICIDE

STOP!
READ THE LABEL

Contains:
4 lbs. EPN per gallon

ACTIVE INGREDIENTS:

*O-Ethyl O-(p-nitrophenyl)	
phenylphosphonothioate	44.83%
Xylene Range Aromatic Solvent	44.18%
INERT INGREDIENTS	<u>10.99%</u>
TOTAL	100.00%

KEEP OUT OF THE REACH OF CHILDREN
DANGER



POISON

BEST DOCUMENT AVAILABLE

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

E.P.A. REG. NO. 876-433
E.P.A. EST. NO. 33691-AZ-1

NOT FOR HOME USE

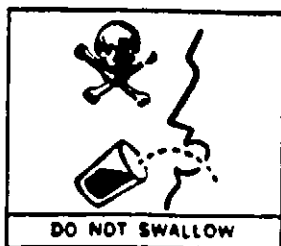
NET CONTENTS: 30 GALLONS

VELSICOL CHEMICAL CORPORATION
341 East Ohio Street, Chicago, Illinois 60611

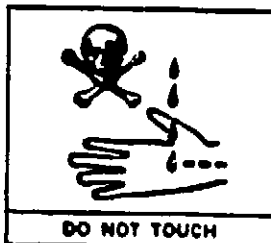
ACCEPTED
with comments
in EPA F-1-10-1-F

DEC 1 1983

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



CAN KILL YOU BY SKIN CONTACT

This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).



CAN KILL YOU IF BREATHED
This product can kill you if vapors, spray mist or dust are breathed.

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

DANGER



POISON

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Poisonous by Skin Contact, Inhalation, or Swallowing. Rapidly absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist.

PROTECTIVE CLOTHING AND EQUIPMENT 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 24 hours of treatment. The following protective clothing must be worn: lightweight, unlined, natural rubber gloves at least mid-forearm 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 mid-calf 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.

WORK SAFETY RULES

Keep all unprotected persons and children away from treated area or where there is danger of drift. For aerial application, flagging must be by fully automated mechanical means, or, if by humans, by persons working in totally enclosed vehicles.

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.

IMPORTANT! 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. It rapidly enters the body on 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, pinpoint pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooping or frothing of mouth and nose, muscle spasms and coma.

STATEMENT OF PRACTICAL TREATMENT

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to EPN and describe his condition.

IF BREATHING HAS STOPPED, start artificial respiration immediately and maintain until doctor sees victim.

IF SWALLOWED, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY

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-PAM chloride is also anticholinergic 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. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and later relapses have been reported after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

Bald

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POST TREATED AREA

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds and other wildlife feeding on treated areas may be killed. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

This product is highly toxic to bees exposed to direct treatment or residue 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. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Reentry Statements

Do not treat areas where unprotected humans or domestic animals are present. Do not allow entry into treated fields within 24 hours after treatment, unless full protective clothing is worn. Consult appropriate State regulatory officials for State reentry restrictions which take precedence when more restrictive than those stated on this label.

Application Instructions

Do not apply this product when weather conditions favor drift from treated area.

Do not apply to orchards or groves when trees or a substantial number of weeds are in bloom. Do not apply to blooming cotton if bees are visiting the treatment area.

Do not apply corn during the pollen-shed period if bees are visiting the treatment area.

Application can be made by aircraft or ground power equipment by trained personnel only using approved protective equipment. Do not apply with hand equipment. Pour specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half the total water before adding wettable powder.

When a dosage range is given, use the lower rate on small young plants or when insect infestation is light, use the higher rate on large or mature plants or when insect infestation is heavy. EPN 4EC may be applied by ground or aerial application. When using ground equipment apply the recommended dosage in at least 3 gallons of water per acre (unless otherwise indicated) using sufficient water to give good coverage of the foliage. For aerial application use 1 to 10 gallons of water per acre. The number of days between last application and harvest is indicated by the number in () following the crop.

Almonds (21). Peach twig borer—8 ozs. per 100 gallons. MITE CONTROL (Including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons water.

Apples (21). Pears (14). Fruitree leafroller, Codling moth, Pear Psylla, Plum curculio. Apply 8 to 12 ozs. per 100 gallons at petal fall and every 10 to 14 days thereafter until control is achieved. Do not use on McIntosh or related varieties—MITE CONTROL (Including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons.

Apricots, Cherries, Nectarines, Peaches, Plums (21). Oriental Fruit moth, Plum curculio. Apply 8 to 12 ozs. at petal fall and every 10 to 14 days thereafter until control is achieved. For Oriental fruit moth, Lecanium and Olive scale crawlers, may be applied once at 5 qts. per acre when flower buds begin to swell. Lesser Peachtree borer, Peachtree borer. Apply 12 to 24 ozs. to trunk from ground to scaffold limbs timed with moth flight in early to late summer. Cottony peach scale, and Lecanium scale crawler. Apply 10 ozs. per 100 gallons. MITE CONTROL (including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons water.

Beans (21). Mexican Bean Beetle. Two-spotted spider mite— $\frac{1}{2}$ to 1 pt. per acre. For Mexican Bean Beetle make 2 to 4 applications starting 5 to 7 days after eggs are laid.

Citrus (30). Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangelos, Tangerine. Citrus red mite—1 pt. per acre. Orangeworm— $2\frac{1}{2}$ to 3 pts. per acre. Citrus Thrips—3 to 4 pts. per acre. Apply for outside coverage. Fruitree leafroller, Orange tortrix— $1\frac{1}{2}$ to $4\frac{1}{2}$ pts. per acre. Do not use treated nnds for food or feed.

Corn (14). Field Corn (14). European Corn Borer—Apply $\frac{1}{2}$ to 1 pt. per acre 10 days after eggs first hatch or when 75% of the plants show evidence of feeding in leaf whorls. Repeat 7 to 10 days later if new evidence of leaf feeding is present. For control of second brood borers, apply when eggs begin to hatch. Corn Rootworm (adult)—To protect the silks from damage apply when the insects appear in sufficient number to damage silks and prevent pollination. Southwestern Corn Borer (second to third generation)—apply 1 pt. per acre when 10% of the plant population have egg masses. Repeat at 5 to 10 day intervals, as needed. Sweet Corn (14): European Corn Borer—apply $\frac{1}{2}$ to 1 pt. per acre when 25% of the plants show evidence of leaf feeding and continue at 5 day intervals as long as leaf feeding is evident. From one to three treatments may be required. For control of second brood borers, apply

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When eggs begin to hatch. Corn Rootworm (adult)—To protect the silks from damage apply when the insects appear in sufficient number to damage silks and prevent pollination.

Cotton (3). Cotton fleahopper, Cotton leafworm, Thrips, Yellow-striped Armyworm, Red spider mite— $\frac{2}{3}$ to 1 pt. per acre. Boll weevil—1 to 1½ pts. per acre. Bollworm, Tobacco Budworm, Pink Bollworm—2 pts. per acre. Do not feed treated forage or gin trash to livestock.

Grapes (21). Grape berry moth—½ pt. per 100 gallons. MITE CONTROL (including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons water.

Olives (Do not apply after July 15th). Cottony peach, Lecanium and Olive scale crawler—2 to 3 gallons per acre.

Pecan (21). Pecan Nut Casebearer—¾ to 1 pt. per 100 gallons. Apply when tips of small nuts begin to turn brown and repeat in 7 to 10 days if needed. Do not graze livestock in treated groves. Do not use in home plantings. MITE CONTROL (including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons water.

Strawberries (21). MITE CONTROL (including European Red, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons.

Soybeans (21). Corn earworm—2 pts. per acre. Apply when counts show one earworm per three feet of row. Repeat as needed. Do not graze livestock or feed forage from treated fields within 21 days after the last application.

Sugarbeets (21). Sugarbeet webworm—2 pts. per acre.

Tomatoes (3) (21). Leafminers (including Serpentine), Armyworms (Beet, Southern, Yellow-striped), Potato Aphid, Tomato Fruitworm, Tomato Russet mite, Two-spotted spider mite—½ to 1½ pts. per acre. Repeat at 7 to 10 day intervals as needed. Twenty-one (21) day harvest intervals above ½ pt. per acre.

Walnuts (21). Codling moth, Walnut Aphid—8 ozs. per 100 gallons. Fruittree leafroller—6 ozs. per 100 gallons. For Codling moth apply at petal fall and every 10 to 14 days thereafter until control is achieved. Do not graze livestock in treated groves. MITE CONTROL (including European Red Mite, Pacific spider, Red spider, Schoene spider, Two-spotted spider, Willamette)—4 to 6 ozs. per 100 gallons water.

TANK MIXTURES

This product may be tank mixed with Methyl Parathion. When using Methyl Parathion as a tank mix observe all limitations, precautions, use and rate recommendations which appear on the label. This product may also be tank mixed for use on Cotton with Galecron 4E*, Fundal 4EC*, Fundal 4SP*, Lannate*, Lannate L*, Nudnn 1.8* or Nudnn 90*. When using these products in a tank mix observe all limitations and precautions which appear on the labels. Use the rate recommendations and application timings for the insect pest that is to be controlled as stated on these labels.

*Galecron 4E is a trademark of the Ciba-Geigy Corp.

*Fundal 4E and Fundal 4SP are trademarks of Schenck A E Berlin/Bergkamen and distributed by NOR-AM Agricultural Products, Inc.

*Lannate and Lannate L are trademarks of E I DuPont DeNemours Co., Inc.

*Nudnn 1.8 and Nudnn 90 are trademarks of Shell Chemical Company.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. 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

Metal

Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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LIMITED WARRANTY AND LIABILITY

NOTICE: Read this Limited Warranty and Liability before buying or using this product. If the terms are not acceptable, return it at once unopened. It is critical that this product be used and mixed only as specified on the label. The laws of a State may make some or all of this paragraph inapplicable or may give you rights in addition to your rights hereunder. Except to the extent prohibited by applicable law, the exclusive remedy of the user or buyer and the limit of liability of this Company or any other Seller for any and all losses, personal injuries or damages resulting from the use of this product, shall be the purchase price paid by the user or buyer for the quantity of product involved. Except to the extent prohibited by State law, there is no warranty, and this Company and other Sellers disclaim all liability for losses, personal injury or damages: (i) arising from any use of this product in a manner or for a purpose not recommended in its label directions, or from mixing this product with any other substance except as recommended by the product's label; (ii) arising from handling or storage in violation of label instructions; (iii) for all indirect, special or consequential damages; (iv) when not reported to this Company within one year of discovery; and (v) arising from product not used within the label-designated shelf life or four years from date of purchase, whichever first occurs. **THERE ARE NO IMPLIED WARRANTIES AND NO WARRANTIES OF MERCHANTABILITY OR FITNESS.**



DEC 1 1983

Mr. John M. Bergman
Velsicol Chemical Corp.
341 E. Ohio St.
Chicago, IL 60611

Dear Mr. Bergman:

Subject: Velsicol EPN 4EC
EPA Registration No. 876-433
Application Dated October 13, 1983

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

J. Ellenberger:DCR-28443:RD.21:CM#2-217:557-2386:bje:11/26/83

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

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