

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 APPLICATORS CERTIFICATION.

STOP — READ LABEL BEFORE USING!

HELENA

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PHOSDRIN** 4-E INSECTICIDE

(Contains 4 lbs Phosdrin per gallon)

ACTIVE INGREDIENTS (By Weight)	
*Alpha Isomer of 2-Carbomethoxy-1-Methylvinyl Dimethyl Phosphate	28.3%
Related Compounds	18.8%
Xylene Range Aromatic Hydrocarbon Solvent	47.9%
INERT INGREDIENTS (By Weight)	
TOTAL	100.0%

*Equivalent to 47.1% Phosdrin Insecticide

DANGER: Poisonous if swallowed, inhaled, or absorbed through skin!
Rapidly absorbed through skin!

Keep Out of Reach of Children

ACCEPTED DANGER-POISON

JUN 3 1980

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5405-228



STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Give a tablespoon of salt in a glass of warm water. Repeat until vomit fluid is clear. Have patient lie down and keep quiet. CALL A PHYSICIAN IMMEDIATELY.

INHALATION: Remove patient from contaminated atmosphere.

SKIN: In case of contact, remove contaminated clothing and immediately wash skin thoroughly with soap and water.

EYES: In case of contact, flush immediately with soap and water for at least 15 minutes.

POISONING SYMPTOMS: Headache, blurred vision, weakness, nausea, cramps, diarrhea and discomfort in the chest.

CALL A PHYSICIAN IMMEDIATELY if persons handling or working with Phosdrin develop poisoning symptoms.

PHYSICIAN'S NOTE: This product is a cholinesterase inhibitor. Give 2.0 mg. of atropine, preferably by injection at once and every hour or oftener as needed to achieve and maintain full atropinization. If 2-PAM CHLORIDE (pralidoxime chloride) is available, administer according to manufacturer's directions. Never give morphine. Clear chest by postural drainage. Artificial respiration or oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeat exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been allowed as determined by blood tests.

ANTIDOTE: If swallowed, Give a tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear. Have victim lie down and keep quiet. Call a physician immediately. If on skin, In case of contact, remove contaminated clothing and immediately wash with soap and water. If inhaled, Remove victim to fresh air. Atropine is antidotal.

See Side Panels For Additional Precautionary Statements

PRECAUCIÓN

AL USUARIO Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente (TO THE USER If you cannot read English, do not use this product until the label has been fully explained to you.)

NOT FOR USE OR STORAGE IN OR AROUND THE HOME

**Registered trademark of Shell Chemical Company

HELENA

Manufactured by
HELENA CHEMICAL COMPANY
Memphis, TN 38117

CUCUMBERS (Pickling) For control of aphids use 1/4 to 1/2 pt per acre. For control of grasshoppers, leafhoppers, and mites use 1/2 to 1 pt per acre. Do not treat within 1 day of harvest.

EGGPLANT, PEPPERS For control of aphids use 1/4 to 1/2 pt per acre. For control of grasshoppers, leafhoppers and mites use 1/2 to 1 pt per acre. Do not treat within 2 days of harvest.

LETTUCE For control of aphids use 1/4 to 1/2 pt per acre. For control of corn earworm, cutworms (climbing), dipterous leafminer (adult), cabbage looper, imported cabbage worm, grasshoppers, mites, lygus bugs, salt marsh caterpillar, false chinch bug and thrips use 1/2 to 1 pt per acre. Do not treat within 2 days of harvest. For hard to kill insects, including aphids, use 1 qt per acre but do not treat within 4 days of harvest.

MELONS (Including Cantaloupe, Honey-Dew Melons, Muskmelons, Watermelons) For control of aphids use 1/4 to 1/2 pt per acre. For control of cabbage looper, dipterous leafminer (adult), leafhoppers, lygus bugs, mites, false chinch bugs, salt-marsh caterpillars, cutworms (climbing) and grasshoppers use 1/2 to 1 pt per acre. To control rindworms (cabbage looper, cutworms, salt-marsh caterpillar, tobacco budworms) on watermelons, apply 1/2 pt per acre. Do not treat cantaloupes, honey-dew melons, muskmelons or watermelons within 1 day of harvest.

ONION For control of aphids use 1/4 to 1/2 pt per acre. For control of cutworms (climbing), corn earworms, green stink bug, mites and velvet bean caterpillar use 1/2 to 1 pt per acre. Do not treat within 1 day of harvest.

PARSLEY For control of aphids apply 1 to 2 pt (0.5 lbs. to 1.0 lbs. a.i./acre) as a foliage application minimum of 40 gallons of water per acre by ground application or 10 to 15 gallons of water per acre by air application. For light infestations use lower dosage of 1 pt (0.5 lb. a.i./acre). Do not treat later than 5 days before harvest. For hard to kill insects and increased population use 2 pts (1.0 lb. a.i./acre). Do not treat later than 8 days before harvest for higher dosage. Begin application when insects first appear and repeat as often as necessary to maintain control. Do not treat more than 3 times between harvests.

PEAS (Including Vines) For control of aphids use 1/4 to 1/2 pt per acre. For control of grasshoppers, leafhoppers, mites and cutworms (climbing) use 1/2 to 1 pt per acre. Do not treat within 1 day of harvest.

POTATOES For control of aphids use 1/4 to 1/2 pt per acre. For control of grasshoppers, leafhoppers and mites use 1/2 pt per acre. Do not treat within 1 day of harvest.

SPINACH For control of aphids use 1/4 to 1/2 pt per acre. For control of cabbage looper, imported cabbage worm, grasshoppers, leafhoppers, mites, dipterous leafminers (adult), cutworms (climbing), salt-marsh caterpillar, false chinch bug and lygus bug use 1/2 to 1 pt per acre. Do not treat within 4 days of harvest. For hard to kill insects, including aphids, use 1 qt per acre but do not treat within 7 days of harvest.

SUMMER SQUASH For control of aphids use 1/4 to 1/2 pt per acre. For control of cabbage looper, dipterous leafminer (adult), leafhoppers, lygus bugs, mites, false chinch bugs, salt-marsh caterpillar, cutworms (climbing) and grasshoppers use 1/2 to 1 pt per acre. Do not treat within 1 day of harvest.

TOMATOES (Outdoor) For control of aphids use 1/4 to 1/2 pt per acre. For control of grasshoppers, leafhoppers and mites use 1/2 to 1 pt per acre. Do not treat within 1 day of harvest.

TURNSIPS For control of aphids use 1/4 to 1/2 pt per acre. For control of cabbage looper, imported cabbage worm, grasshoppers, leafhoppers, mites, false chinch bug and dipterous leafminer (adult) use 1/2 to 1 pt per acre. Do not treat within 3 days of harvest.

GREENHOUSE

Diluted Phosdrin should be applied in a closed greenhouse (close all doors, windows and ventilators). Lock or barricade all entrances, post warning signs and take whatever precautions are necessary to prevent unprotected humans and domestic animals from entering the treated area. The operator must wear a full-face mask of a type found adequate for mevinphos (Phosdrin Insecticide) protection. Apply any time the greenhouse ventilators can remain closed for two hours without endangering crops from high temperatures, such as early morning, cloudy days or late afternoons. If application is made during the day, keep the greenhouse closed lightly for at least two hours, then ventilate the enclosure thoroughly for an hour before resuming regular work. If application is made in the later afternoon, the house can be kept closed all night. On the following morning, ventilate for one hour to render the air safe for regular work.

LETTUCE (Including Leaf, Bibb and Romaine) For control of aphids, corn earworms, cutworms (climbing), dipterous leafminer (adult), cabbage looper, imported cabbage worm, grasshoppers, mites, lygus bugs, salt-marsh caterpillars, false chinch bugs and thrips use 1/4 to 2/3 pt per 50,000 sq. ft. Do not treat within 10 days of harvest.

WARRANTY

WARRANTY AND LIMITATION OF DAMAGES Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Helena Chemical Company is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

ORGANIC PHOSPHATE COMPOUND MIXTURE LIQUID

SN 111679-M
NET CONTENTS

EPA Reg. No. 5905-228
EPA EST. NO.

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FRUIT AND NUT CROPS

APPLES, PEACHES, PEARS, PLUMS: For control of aphids and mites use 1/4 to 1/2 pt. per 100 gals. water. Do not exceed 1,200 gallons of finished spray per acre on apples and pears when 1/2 pt. is used. For control of grasshoppers, lygus bugs and red-banded leaf roller, use 1/2 to 2/3 pt. per 100 gals. water. Do not exceed 900 gals. of finished spray per acre on apples and pears when 2/3 pt. is used. Do not treat within 1 day of harvest. Do not exceed 750 gals. finished spray per acre on peaches or plums.

CHERRIES (Sour Only): For control of aphids and mites use 1/2 to 2/3 pt. per 100 gals. water. Do not treat within 2 days of harvest. Do not exceed 750 gals. finished spray per acre.

CITRUS (ORANGES, LEMONS, GRAPEFRUIT): For control of aphids use 1 to 2 pt. per acre in 200 or more gals. water. For control of fruit tree leafroller, orange tortrix and omnivorous leafroller use 1 qt. per acre in 500 gals. water. For control of Western tussock moth larvae, citrus cutworm variegated cutworm and pink scavenger caterpillar use 2 qt. per acre in 1,000 gals. water. Allow at least 7 days between applications. Do not treat within 1 day of harvest.

GRAPES: For control of aphids, use 1/2 to 1 pt. per acre. Do not treat within 2 days of harvest. For control of leaf folder, leafhoppers, mites, red banded leafroller and lygus bugs use 1 to 2 pts. per acre. At the 2 pt. dosage, do not treat within 5 days of harvest.

RASPBERRIES: For control of aphids use 1/4 to 1/2 pt. per 100 gals. water. For control of mites, leafhoppers, fruit tree leafroller and orange tortrix use 1/2 to 2/3 pt. per 100 gals. water. Apply both dosages in up to 200 gals. water per acre. Do not treat within 3 days of harvest.

STRAWBERRIES: For control of aphids and mites use 1/4 to 1/2 pt. per 100 gals. water. For control of grasshoppers, strawberry leafroller, salt marsh caterpillar and lygus bugs, use 1/2 to 1 pt. per 100 gals. water. Do not treat within 1 day harvest. For all hard to kill insects, including aphids and mites, use 1 qt. per 100 gals. water, but do not treat within 2 days of harvest. Do not exceed 100 gals. finished spray per acre.

WALNUTS: For control of aphids use 1/4 to 1/2 pt. per 100 gals. water. For control of mites, omnivorous looper, orange tortrix, fruit tree leafroller, and Western tussock moth use 1/2 pt. per 100 gals. water. Do not treat within 1 day of harvest. Do not exceed 1000 gals. finished spray per acre.

FIELD CROPS

ALFALFA, CLOVER: For control of aphids and alfalfa caterpillar use 1/4 to 1/2 pt. per acre. For control of grasshoppers, leafhoppers, cutworms (climbing), mites, alfalfa weevil larvae, lygus bugs use 1/2 to 1 pt. per acre. Do not treat within 1 day of harvest.

CORN (FIELD, SWEET, AND POPCORN) FOR FORAGE ONLY: For control of aphids, use 1/2 to 1 pt. per acre. Do not treat within 1 day of harvest.

MUSTARD GREENS, TURNIP TOPS: For control of aphids use 1/4 to 1/2 pt. per acre. For control of cabbage looper, imported cabbage worm, false chinch bug, dipterous leafminers (adult), grasshoppers, leafhoppers, mites, cutworms (climbing) and lygus bugs, use 1/2 to 1 pt. per acre. Do not treat within 3 days of harvest.

PEA VINES (FOR FORAGE ONLY): For control of aphids use 1/4 to 1/2 pt. per acre. For control of grasshoppers, leafhoppers, mites and cutworms (climbing) use 1/2 to 1 pt. per acre. Do not treat within 1 day of harvest.

SORGHUM (FOR FORAGE AND GRAIN): For control of aphids use 1/4 to 1/2 pt. per acre. For control of corn earworm and webworm use 1/2 to 1 pt. per acre. For control of fall armyworms use 1 pt. per acre. Do not treat within 3 days of harvest.

VEGETABLE CROPS

ARTICHOKES: For control of aphids use 1/4 to 1/2 pt. per acre. For control of plum moth use 1 to 2 pt. per acre. Do not treat within 2 days of harvest.

BEANS: For control of aphids use 1/4 to 1/2 pt. per acre. For control of grasshoppers, leafhoppers, mites and Mexican bean beetle use 1/2 to 1 pt. per acre. Do not treat within 1 day of harvest.

BEETS (Including Tops): For control of aphids use 1/4 to 1/2 pt. per acre. For control of cabbage looper, cutworm (climbing), dipterous leafminer (adult), false chinch bug, grasshoppers, imported cabbage worm, leafhopper, mites and salt-marsh caterpillar use 1/2 to 1 pt. per acre. Do not treat within 3 days of harvest.

BROCCOLI, CABBAGE: For control of aphids use 1/4 to 1/2 pt. per acre. For control of cabbage looper, imported cabbage worm, grasshoppers, leafhoppers, salt marsh caterpillar, mites, cutworms (climbing), dipterous leafminer (adult) and lygus bugs use 1/2 to 1 pt. per acre. Do not treat within 3 days of harvest. For hard to kill insects, including aphids, use 1 qt. per acre, but do not treat within 3 days of harvest.

BRUSSELS SPROUTS, CAULIFLOWER, COLLARDS, KALE: For control of aphids use 1/4 to 1/2 pt. per acre. For control of cabbage looper, imported cabbage worm, grasshoppers, leafhoppers, salt marsh caterpillar, mites, cutworms (climbing), dipterous leafminer (adult) and lygus bugs use 1/2 to 1 pt. per acre. Do not treat within 3 days of harvest. For hard to kill insects, including aphids, use 1 qt. per acre, but do not treat collards and kale within 7 days of harvest.

CARROTS: For control of aphids use 1/4 to 1/2 pt. per acre. For control of leafhoppers, lygus bugs, mites, cabbage looper, dipterous leafminer (adult), cutworm (climbing) and salt-marsh caterpillar use 1/2 to 1 pt. per acre. Do not treat within 2 days of harvest.

CELERY: For control of aphids use 1/4 to 1/2 pt. per acre. For control of dipterous leafminer (adult), lygus bug, salt marsh caterpillar, leafhopper, cabbage looper and mites use 1/2 to 1 pt. per acre. Do not treat within 3 days of harvest. For hard to kill insects, including aphids, use 1 qt. per acre, but do not treat within 5 days of harvest.

CORN (Field, Sweet and Popcorn) For Grain Only: For control of aphids use 1/4 to 1 pt. per acre. Do not treat within 1 day of harvest.

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Precautionary Statements

DANGER

Hazards to Humans And Domestic Animals

Do not get in eyes, on skin, or on clothing. Do not breathe fumes. Wear natural rubber gloves, protective clothing and goggles. In case of contact wash immediately with soap and water. Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11 for Phosdrin protection. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Vacated areas should not be re entered until drifting insecticide and volatile residues have dissipated. Do not contaminate feed and foodstuffs. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Wash all contaminated cloth clothing with soap and hot water before re use.

Environmental Hazards

This product is toxic to fish, shrimp, crabs and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. 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. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agriculture Extension Service.

Physical and 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.

NOTE: Consult your State Department of Agriculture or local Agricultural Extension Service for information on the time interval between application and safe re entry to the treated field.

Storage and Disposal

FOR ALL EMPTY CONTAINERS

Do not reuse empty container. Destroy by perforating or crushing. Burial is not a final disposal route from water supplies.

COMPATIBILITY

Do not combine with lime sulfur, Bordeaux mixture, Zinc Sulfate, lime mixtures or other mixtures containing lime or other alkaline materials. Do not combine with Sevin as injury may occur on certain crops.

USE AND APPLICATION DIRECTIONS

General: Phosdrin can be used in conventional hydraulic sprayers, low volume ground applications, or airplane sprayers. Use this product only for recommended purposes and at recommended dosage. For best results, consult the State Agricultural Extension Service for timing recommendations. Mix with water by vigorous agitation. Agitate the mixture while spraying if it will not stir and agitate before use.

Apply when insects first appear and repeat application as often as necessary to maintain control. Apply a suitable volume of water to give uniform coverage of foliage. For application by airplane dilute this product with 3 to 10 gallons of water per acre.

FRUIT AND NUT CROPS: Use recommended dosages in sufficient water to obtain thorough spray coverage. Do not exceed indicated maximum gallonage for that crop. If concentrate product application is employed, do not apply less than 10 gallons of spray per acre and do not exceed Phosdrin level to be the same dosage per acre as recommended for full coverage application.

FIELD AND VEGETABLE CROPS: Use 3 to 10 gallons of spray per acre when using ground application equipment.

Avoid drift to neighboring crops or areas.

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