

Shell

**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.

**ACCEPTED**  
MAY 26 1982  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 201-289

# Phosdrin<sup>®</sup> 4 EC EMULSIBLE CONCENTRATE

(Contains 4 lbs. PHOSDRIN Insecticide per gallon)

ACTIVE INGREDIENTS	BY WEIGHT
Alkyl isomer of 2 carbomethoxy-1-methyl vinyl dimethyl phosphate	29.3%
Related Compounds	18.8%
Petroleum Hydrocarbons (Xylene)	47.9%
<b>INERT INGREDIENTS</b>	<b>5.0%</b>
	<b>TOTAL 100.0%</b>

\*Equivalent to 47.1% PHOSDRIN Insecticide  
EPA Reg. No. 201-233 U.S. Patent No. 2,635,652  
EPA Est. 201-AU-1

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**NET CONTENTS:  
2 1/2 GALLONS**




**KEEP OUT OF REACH  
OF CHILDREN  
DANGER! POISON**

**STATEMENT OF PRACTICAL TREATMENT**  
ATROPINE IS AN ANTIDOTE. CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.  
**IF SWALLOWED:** drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. NEVER induce vomiting or give anything by mouth to an unconscious or non-alert person.  
**IF INHALED:** remove from exposure. Have patient lie down and keep quiet. If patient shows breathing, start artificial respiration immediately. Get medical attention.  
**IN CASE OF CONTACT:** wash skin with plenty of soap and water. For eyes flush with water and get medical attention immediately. Wash and flush thoroughly. Wear eye shade.  
**IF WARNING SYMPTOMS APPEAR (See WARNING SYMPTOMS under NOTE TO PAYS on back panel):** Stop use immediately and get medical attention immediately. Patient is to be kept in hospital until symptoms disappear.

SEE ANTIDOTE AND OTHER PRECAUTIONS ON SIDE PANEL

SHELL CHEMICAL COMPANY, A Division of Shell Oil Company, AGRICULTURAL CHEMICALS, HOUSTON, TX. 77001


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**MEVINPHOS MIXTURE, LIQUID -  
POISON B, (Flammable Liquid)  
NA 2783, RQ**

**FLAMMABLE LIQUID**

**3**



**POISON**

**6**

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER: POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. RAPIDLY ABSORBED THROUGH SKIN. REPEATED INHALATION OR SKIN CONTACT MAY, WITHOUT SYMPTOMS, PROGRESSIVELY INCREASE SUSCEPTIBILITY TO PHOSPHINE INSECTICIDE POISONING. DO NOT SWALLOW OR GET IN EYES, ON SKIN, OR IN CLOTHING. DO NOT BREATHE VAPORS. DO NOT CONTAMINATE FEED OR FEED PRODUCTS. KEEP AWAY FROM HEAT OR OPEN FLAME.**

**PRECAUTIONS IN USING**  
 Wear clean rubber gloves, clean protective clothing, goggles and a face shield. Replace gloves frequently and destroy used gloves. Wear a mask or respirator approved for protection against the insecticide (PHOSPHINE) vapors or spray mist. Wear clean clothes daily. Wash thoroughly with soap and water after handling and before eating or smoking. Help should not assist in making and loading operation. Do not contaminate or store near food or feedstuffs.  
**IMPORTANT:** Not for use or storage in or around the home. Keep animals and unprotected persons out of operational areas and while there is a danger of drift.  
 In case of spillage, decontaminate areas and equipment by washing with a dilute solution of alkali (less than 5%) and detergent and rinse with water.

**NOTE TO PHYSICIAN**  
**WARNING SYMPTOMS:** Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pinpoint pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps.

**TREATMENT:** Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, atropine sulfate should be injected at 10 minute intervals, in doses of 1 to 2 milligrams, until complete atropinization has occurred.  
 Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion in 250 cc of saline over a 15 to 30 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5 percent solution in water over not less than two minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children the dose of 2-PAM is 0.25 grams.  
 Morphine is an improper treatment.  
 Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until cholinesterase regeneration has been attained as determined by blood test.  
 For 24 hour emergency medical assistance call 1-800-451-4277.

**ENVIRONMENTAL HAZARDS**  
 This product is poisonous to fish and aquatic life. Contaminated areas may be killed. This product is highly toxic to birds exposed to dust or the insecticide. Do not apply to water bodies, streams, ponds, or other aquatic life.



# Phosdrin 4 EC

Do not use Phosdrin 4 EC in areas where it may be applied when weather conditions favor drift from the application area. Do not apply where runoff is likely to occur. Do not use Phosdrin 4 EC for cleaning of equipment or disposal of wastes. In case of a significant spill, call (713) 473-9461 or CHEMTREC (24H) 424-9300.

### DIRECTIONS FOR USE

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

**STORAGE AND DISPOSAL**  
**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumpings prohibited. Do not re-use container.  
**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Dispose of in a sanitary landfill or by other approved State and local procedures.

Read the Directions Carefully and Follow Them at all Times

### USE AND APPLICATION DIRECTIONS

Shell PHOSDRIN insecticide Emulsible Concentrate can be used in conventional hydraulic sprayers, low volume ground applicators, or airplane sprayers. Use this product only for recommended purposes and at recommended dosages. For best results consult the State Agricultural Extension Service for exact dosage and timing recommendations.

Mix with water by vigorous agitation; agitate the mixture while spraying. If allowed to stand, re-agitate before use.

Apply when insects first appear and repeat application as often as necessary to maintain control. Apply in 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, but do not exceed indicated maximum gallonage for that crop. If concentrate ground application is employed, do not apply less than 10 gallons of spray per acre, and adjust dosage of PHOSDRIN Insecticide Emulsible Concentrate to obtain same dosage per acre as recommended for full coverage application.

**FIELD AND VEGETABLE CROPS:** Use 10-125 gallons of spray per acre when using ground application equipment. Avoid drift of this product to crops for which it is not registered or to crops for which its use may be registered but application would be closer to harvest than recommended.

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

### 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 grasshopper, lygus bugs and red-banded leafhopper use 1/2 to 3/4 pt. per 100 gals. water. Do not exceed 900 gals. of finished spray per acre on apples and pears when 3/4 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 3/4 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 leafhopper, orange looper and omnivorous leafhopper 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 1200 gals. water. Allow at least 7 days between applications. Do not treat within 1 day of harvest.  
**GRAPE:** 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 leafhopper 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 leafhopper and orange looper use 1/2 to 3/4 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 leafhopper, salt-marsh caterpillar and lygus bugs use 1/2 pt. to 1 pt. per 100 gals. water. Do not treat within 1 day of 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 looper, fruit tree leafhopper 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 1/2 to 1 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 leafminer (adult), grasshoppers, leafhoppers and mites 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 prune moth use 1 to 2 pts. 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 1 day 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.  
**CUCUMBERS (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.

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**CUPPLANT 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 windworms (cabbage looper, cutworms, salt-marsh caterpillars, 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.

**OKRA** 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.

**ONIONS (INCLUDING GREEN ONIONS)** For control of thrips and cutworms (climbing) 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 pints (0.5 lb. to 1.0 lb. a.i. acre) as a foliage application using a minimum of 40 gallons of water per acre by ground application or 10-15 gallons of water per acre by air application. For light infestations use lower dosage of 1 pint (0.5 lb. a.i. acre). Do not treat later than 5 days before harvest. For hard to kill insects and increased populations use 2 pints (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 leafminer (adult), cutworms (climbing), salt-marsh caterpillar and false chinch 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 4 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, leafhopper and mites use 1/2 to 1 pt. per acre. Do not treat within 1 day of harvest.

**TURNIPS** 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 Insecticide Emulsible Concentrate 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 tightly for at least two hours, then ventilate the enclosure thoroughly for an hour before resuming regular work. If application is made in the late 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 1/2 pts. per 50,000 cu. ft. Do not treat within 10 days of harvest.

**NOTICE OF WARRANTY**

SHELL CHEMICAL COMPANY MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

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