

# 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.



# Phosdrin<sup>®</sup> 4EC

## Emulsible Concentrate Insecticide

EPA Reg. No. 352-471  
U.S. Patent No. 2,685,332

MEVINPHOS MIXTURE, LIQUID — POISON B,  
(Flammable Liquid) NA 2783, RQ  
(Contains 10% PHOSDRIN Insecticide per gallon.)

ACTIVE INGREDIENTS	BY WEIGHT*
alpha Isomer of 2-carbomethoxy-1-methylvinyl dimethyl phosphazene	28.3%
Related Compounds	18.8%
Petroleum Hydrocarbons	47.9%
<b>INERT INGREDIENTS</b>	<b>5.0%</b>
<b>TOTAL</b>	<b>100.0%</b>

\*Equivalent to 47.1% PHOSDRIN Insecticide

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

**TREATMENT 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-start person. IF INHALED, remove from exposure. Have patient lie down and keep quiet. If patient is not 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. remove and wash contaminated clothing before re-use.  
IF WARNING SYMPTOMS APPEAR: (See WARNING SYMPTOMS Under "NOTE TO PHYSICIAN") Keep patient prone and quiet. Start artificial respiration immediately if patient is not breathing. Transport the patient immediately to the nearest hospital.

**SEE ANTIDOTE AND OTHER PRECAUTIONS.**

**PELIGRO**  
PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

**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 PHOSDRIN INSECTICIDE POISONING. DO NOT SWALLOW OR GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPORS. DO NOT CONTAMINATE FOOD OR FEED PRODUCTS. KEEP AWAY FROM HEAT OR OPEN FLAME.**

**PRECAUTIONS IN USING**  
Wear clean rubber gloves, clean protective clothing and goggles. Replace gloves frequently and destroy used gloves. Wear a mask or respirator approved for protection against mevinphos (PHOSDRIN) vapors or spray mist. Wear clean clothes daily. Wash thoroughly with soap and water after handling and before eating or smoking. Pilot should not assist in mixing and loading operation. Do not contaminate or store near food or feedstuffs. Note Reentry Statements Section. **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, headaches, tightness in chest, blurred vision, nonreactive 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.

pinization. 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 mouth. ... 2.5 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 medical emergencies involving this product, call toll free 1-800-4413637.

**ENVIRONMENTAL HAZARDS**  
This product is poisonous to fish and wildlife. Birds feeding on treated areas may be killed. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service. Keep out of lakes, ponds and streams. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes.  
In case of a significant spill, call CHEMTREC (800) 424-9300.

**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 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 unprotected persons.  
Do not enter treated areas without protective clothing until sprays have dried.  
Because certain States may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.)

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

Written warnings must include the following information:

"DANGER! Area treated with PHOSDRIN® 4EC on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here actions to take in case of accidental exposure. See STATEMENT OF PRACTICAL TREATMENT for details.)"

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. Open dumping is prohibited.

**STORAGE:** Do not store in or around the home. Store in a secure, dry and temperate area. Store in original container only. Product is flammable. Keep away from heat, sparks or open flame. If spilled avoid exposure. If significant spill call CHEMTREC (800) 424-9300. Spill can be contained by covering with a sufficient amount of absorbent material, such as clay, diatomaceous earth, sand, sawdust or sweeping compound. Place in drum, label contents and dispose of according to the instructions below in pesticide disposal.

**CAUTION:** Wear a pesticide respirator and avoid forming dust clouds during clean-up.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse water is a violation of Federal law. If the wastes cannot be disposed of 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.

### Read the Directions Carefully and Follow Them at all Times

### USE AND APPLICATION DIRECTIONS

Du Pont PHOSDRIN® 4EC 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 to 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.

### Fruit and Nut Crops

**APPLES, PEACHES, PEARS, PLUMS:** For control of aphids and mites use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per 100 gals. water. Do not exceed 1,200 gallons of finished spray per acre on apples and pears when  $\frac{1}{2}$  pt. is used. For control of grasshoppers, Lygus bugs and red-banded leafroller use  $\frac{1}{2}$  to  $\frac{2}{3}$  pt. per 100 gals. water. Do not exceed 900 gals. of finished spray per acre on apples and pears when  $\frac{2}{3}$  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  $\frac{1}{2}$  to  $\frac{2}{3}$  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 western tussock moth larvae, citrus cutworm, variegated cutworm and pink scavenger caterpillar use 2 qt. per acre in 1,200 gals. water. Allow at least 7 days between applications. Do not treat within 1 day of harvest.

**GRAPES:** For control of aphids use  $\frac{1}{2}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per 100 gals. water. For control of mites, leafhoppers, fruit tree leafroller and orange tortrix use  $\frac{1}{2}$  to  $\frac{2}{3}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per 100 gals. water. For control of grasshoppers, strawberry leafroller, salt-marsh caterpillar and Lygus bugs use  $\frac{1}{2}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per 100 gals. water. For control of mites, omnivorous looper, orange tortrix, fruit tree leafroller, western tussock moth use  $\frac{1}{2}$  pt. per 100 gals. water. Do not treat within 1 day of harvest. Do not exceed 1,000 gals. finished spray per acre.

### Field Crops

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

**MUSTARD GREENS, TURNIP TOPS:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of cabbage looper, imported cabbage worm, false chinch bug, dipterous leafminer (adult), grasshoppers, leafhoppers and mites use  $\frac{1}{2}$  to 1 pt. per acre.

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

**BEST AVAILABLE COPY**

**SORGHUM (FOR FORAGE AND GRAIN):** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of corn earworm and webworm use  $\frac{1}{2}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of plume moth use 1 to 2 pts. per acre. Do not treat within 2 days of harvest.

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

**BEETS (INCLUDING TOPS):** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 3 days of harvest.

**BROCCOLI, CABBAGE:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  to 1 qt. 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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of leafhoppers, Lygus bugs, mites, cabbage looper, dipterous leafminer (adult), cutworm (climbing) and salt-marsh caterpillar use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 2 days of harvest.

**CELERY:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of dipterous leafminer (adult), Lygus bug, salt-marsh caterpillar, leafhopper, cabbage looper and mites use  $\frac{1}{2}$  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  $\frac{1}{4}$  to 1 pt. per acre. Do not treat within 1 day of harvest.

**CUCUMBERS (OUTDOOR):** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of grasshoppers, leafhoppers and mites use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 1 day of harvest.

**EGGPLANT, PEPPERS:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of grasshoppers, leafhoppers and mites use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 2 days of harvest.

**LETTUCE:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  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, HONEYDEW MELONS, MUSKMELONS, WATERMELONS):** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  to 1 pt. per acre. To control rindworms (cabbage looper, cutworms, salt-marsh caterpillars, tobacco budworms) on watermelons apply  $\frac{1}{2}$  pt. per acre. Do not treat cantaloupes, honeydew melons, muskmelons or watermelons within 1 day of harvest.

**OKRA:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of cutworms (climbing), corn earworms, green stink bug, mites and velvet bean caterpillar use  $\frac{1}{2}$  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  $\frac{1}{2}$  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 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 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 populations use 2 pt. (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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of grasshoppers, leafhoppers, mites and cutworms (climbing) use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 1 day of harvest.

**POTATOES:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of grasshoppers, leafhoppers and mites use  $\frac{1}{2}$  pt. per acre. Do not treat within 1 day of harvest.

**SPINACH:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  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  $\frac{1}{2}$  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  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of cabbage looper, dipterous leafminer (adult), leafhoppers, Lygus bugs, mites, false chinch bugs, salt-marsh caterpillar, cutworm (climbing) and grasshoppers use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 1 day of harvest.

**TOMATOES (OUTDOOR):** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of grasshoppers, leafhoppers and mites use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 1 day of harvest.

**TURNIPS:** For control of aphids use  $\frac{1}{4}$  to  $\frac{1}{2}$  pt. per acre. For control of cabbage looper, imported cabbage worm, grasshoppers, leafhoppers, mites, false chinch bug and dipterous leafminer (adult) use  $\frac{1}{2}$  to 1 pt. per acre. Do not treat within 3 days of harvest.

### GREENHOUSE

Diluted PHOSDRIN 4 EC 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 unprepared 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.

BEST AVAILABLE COPY

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 1/4 to 2 1/3 pt. per 50,000 sq. ft. Do not treat within 10 days of harvest.

#### **NOTICE OF WARRANTY**

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

**BEST AVAILABLE COPY**