

PM 16

5905-228

11/29/90

1/13

**RESTRICTED USE PESTICIDE**

**Due to Very High Acute Toxicity to Humans and Residue Effects on Avian, Mammalian and Aquatic Species**

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. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

ACQ 1110  
Final Comments  
in EPA Letter Dated:

HELENA

FEB 27 1989

PHOSDRIN 4-E  
INSECTICIDE

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. (By Weight)

**ACTIVE INGREDIENT:**

Mevinphos (2-Carbomethoxy-1-Methylvinyl	5905-228	
Dimethyl Phosphate, alpha isomer .....		28.3%*
Related Compounds .....		18.8%*

<b>INERT INGREDIENTS:</b> .....		52.9%
<b>TOTAL</b> .....		<u>100.0%</u>

\*Equivalent to 47.1% w Mevinphos Insecticide.  
Contains 4 lbs. Phosdrin per gallon



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



**PELIGRO**

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

**STATEMENT OF PRACTICAL TREATMENT**

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

**IF INHALED:** Remove patient from contaminated atmosphere. ....

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

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

See Side Panels for Additional Precautionary Statements

**BEST AVAILABLE COPY**

PM 16

11-29-90

5905-228

113

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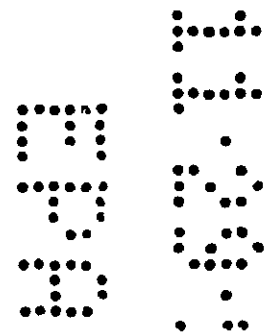
2113

EPA EST. NO.

EPA REG. NO. 5905-228

NET CONTENTS:

Manufactured by:  
HELENA CHEMICAL COMPANY  
MEMPHIS, TN. 38137



# DIRECTIONS FOR USE

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

4/13

## RE-ENTRY STATEMENT

\*Reentry into treated citrus groves, grape vineyards, and nectarine and peach orchards is prohibited for 96 hours (4 days) after the end of application, unless the protective clothing specified on this label for early reentry is worn. Reentry into all other treated areas is prohibited for 48 hours (2 days) after the end of application, unless the protective clothing specified on this label for early reentry is worn.

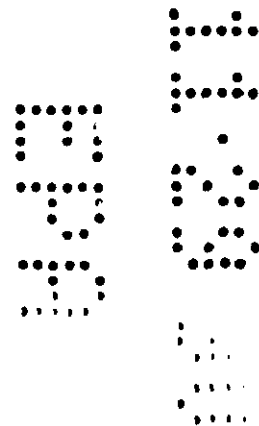
FOR EARLY REENTRY INTO TREATED AREAS BEFORE SPRAYS HAVE DRIED, wear all protective clothing specified on this label for an applicator.

FOR EARLY REENTRY INTO TREATED AREAS AFTER SPRAYS HAVE DRIED, wear protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical-resistant gloves; chemical-resistant shoes (or chemical-resistant shoe coverings or chemical-resistant boots).

Written or oral warnings must be given to workers who are expected to be in treated areas 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. 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 MEVINPHOS on (Date)**

**Do not enter without appropriate protective clothing until (insert date/time reflecting end of reentry interval set forth on this label). In case of accidental exposure see STATEMENTS OF PRACTICAL TREATMENT found on the MEVINPHOS product label."**

BEST AVAILABLE COPY



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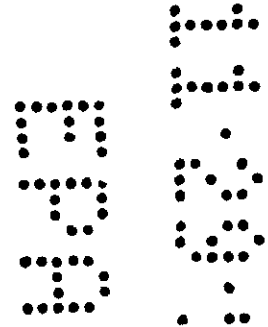
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**CHEMIGATION PROHIBITION:**

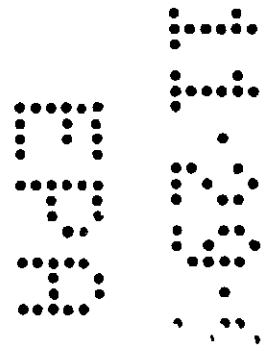
Do not apply this product through any type of irrigation system.

**WORK SAFETY PRECAUTIONS:**

USE ONLY WHEN WEARING THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, AND DISPOSAL OF THE PESTICIDE: protective suit of one or two pieces that covers all parts of the body except head, hands, and feet; chemical-resistant gloves; chemical-resistant shoes (or chemical-resistant shoe coverings or chemical-resistant boots); goggles or face shield; hood or wide brimmed hat; NIOSH or MSHA approved respiratory protection device.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeve shirt; long-legged pants; chemical-resistant gloves; chemical-resistant apron; shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeve shirt and long-legged pants; shoes and socks. Chemical-resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated area. When used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag. REMEMBER - THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.



**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) 424-9303. Spill can be contained by covering with a sufficient amount of absorbent material, such as clay, diatomaceous earth, sand, cement or sweeping compound. Place in drum, label contents and dispose of according to the instructions below in pesticide disposal.

**DANGER:** 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.

**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 to certain crops.

**USE AND APPLICATION DIRECTIONS**

Helena Phosdrin can be used in convential 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 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 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 to neighboring crops or areas.

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**FIELD AND VEGETABLE CROPS:** Use 10 to 125 gallons of spray per acre when using ground application equipment.

Avoid drift to neighboring crops or areas.

**BEST AVAILABLE COPY**



**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 1200 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 worms, 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.

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**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.

**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 Cataloupes, Honey Dew Melons, Muskmelons, Watermelons):** For control of aphids use 1/4 to 1/2 pts. 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.

**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.

**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.

**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 should be applied in a closed greenhouse (close all doors, windows and

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**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.

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**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.

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Diluted Phosdrin should be applied in a closed greenhouse (close all doors, windows and

**CONDITIONS OF SALE - LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Helena warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of Helena. Helena makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warrant shall be implied by law.

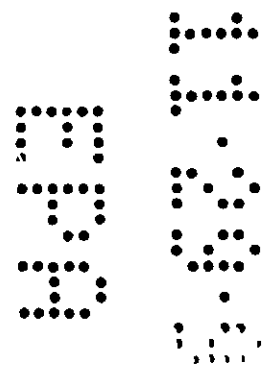
The exclusive remedy against Helena for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against Helena exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Helena shall not be liable and any and all claims against Helena are waived, for special, indirect, incidental, or consequential damages or expense, of any nature, including, but not limited to, loss of profits or income, whether or not based on Helena's negligence, breach of warranty, strict liability in tort or any other cause of action.

Helena and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

HELENA

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



5905-228  
-297  
-298

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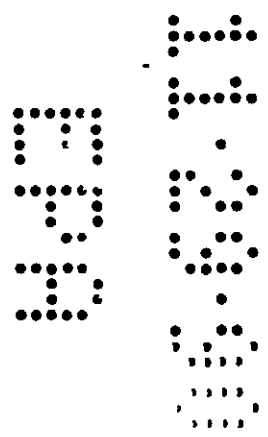
**λ-79 ENCLOSURE**  
(Revised January, 1979)

Final printed labeling is defined as that labeling which will accompany the pesticide product to market, and includes not only the container label, but also all accompanying technical information, brochures, etc.

When submitting final printed labeling for the Agency's files, they should be submitted so that they may be stored conveniently in 8 1/2 by 11 inch files. Labels may be mounted or photoreduced to meet the size requirements provided the printing is legible and is of microfilm reproduction quality. Should photoreduction make any of the text illegible the text must be typed out on an accompanying sheet of paper.

- I. Paste-on labeling. This should be submitted as is, unless it requires photoreduction.
- II. Screen print labeling. These labels should be submitted by taping paper on the container as it goes through the printing process. The actual container should not be submitted.
- III. Embossed labeling. This should be photocopied.
- IV. Unusual size labeling. Large bags or boxes must be photo-reduced. Either the entire label on one reduction or in sections so that each section is 8 1/2 by 11 inches.

The references for the above are 40 C.F.R. Section 162.10(a)(6) and 40 C.F.R. Section 162.44.



**BEST AVAILABLE COPY**

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**RESTRICTED USE PESTICIDE**

**Due to Very High Acute Toxicity to Humans and Residue Effects on Avian, Mammalian and Aquatic Species**

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. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

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PHOSDRIN 4-E  
INSECTICIDE

in EPA Letter D-128:

FEB 27 1989

Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended, for the pesticide registered under EPA Reg. 171.10 (By Weight)

**ACTIVE INGREDIENT:**

Mevinphos (2-Carbomethoxy-1-Methylvinyl Dimethyl Phosphate, alpha isomer .....	5905-228	28.37*
Related Compounds .....		18.87*

INERT INGREDIENTS: .....		52.9%
TOTAL .....		100.0%

\*Equivalent to 47.1%/w Mevinphos Insecticide.  
Contains 4 lbs. Phosdrin per gallon



CAN KILL YOU

KEEP OUT OF REACH OF CHILDREN  
DANGER - POISON

PELIGRO



CAN KILL YOU

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

**STATEMENT OF PRACTICAL TREATMENT**

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

**IF INHALED:** Remove patient from contaminated atmosphere.

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

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

See Side Panels for Additional Precautionary Statements

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FRONT PANEL CONTINUED

EPA EST. NO.

EPA REG. NO. 5905-228

NET CONTENTS:

Manufactured by:  
HELENA CHEMICAL COMPANY  
MEMPHIS, TN. 38137



## 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.

### 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. 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.

### ENVIRONMENTAL HAZARDS

"This pesticide is toxic to fish and wildlife. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters."

"This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area."

### Physical and Chemical Hazards

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

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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.

## **RE-ENTRY STATEMENT**

"Reentry into treated citrus groves, grape vineyards, and nectarine and peach orchards is prohibited for 96 hours (4 days) after the end of application, unless the protective clothing specified on this label for early reentry is worn. Reentry into all other treated areas is prohibited for 48 hours (2 days) after the end of application, unless the protective clothing specified on this label for early reentry is worn.

**FOR EARLY REENTRY INTO TREATED AREAS BEFORE SPRAYS HAVE DRIED,** wear all protective clothing specified on this label for an applicator.

**FOR EARLY REENTRY INTO TREATED AREAS AFTER SPRAYS HAVE DRIED,** wear protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical-resistant gloves; chemical-resistant shoes (or chemical-resistant shoe coverings or chemical-resistant boots).

Written or oral warnings must be given to workers who are expected to be in treated areas 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 MEVINPHOS on (Date)

**Do not enter without appropriate protective clothing until (insert date/time reflecting end of reentry interval set forth on this label). In case of accidental exposure see STATEMENTS OF PRACTICAL TREATMENT found on the MEVINPHOS product label."**

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**CHEMIGATION PROHIBITION:**

Do not apply this product through any type of irrigation system.

**WORK SAFETY PRECAUTIONS:**

USE ONLY WHEN WEARING THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, AND DISPOSAL OF THE PESTICIDE: protective suit of one or two pieces that covers all parts of the body except head, hands, and feet; chemical-resistant gloves; chemical-resistant shoes (or chemical-resistant shoe coverings or chemical-resistant boots); goggles or face shield; hood or wide brimmed hat; NIOSH or MSHA approved respiratory protection device.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeve shirt; long-legged pants; chemical-resistant gloves; chemical-resistant apron; shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeve shirt and long-legged pants; shoes and socks. Chemical-resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated area. When used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag. **REMEMBER - THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.**

**IMPORTANT!** If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

**AFTER WORK:** Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job -- do not wear contaminated clothing. Personal and protective clothing worn during work must be stored and laundered separately from household articles. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment that becomes heavily contaminated or drenched with mevinphos must be destroyed according to State and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment, and other information regarding the toxicity of mevinphos. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

**IF HANDLED INDOORS** provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away, see the First Aid (Practical Treatment) section of this label."

**"HUMAN FLAGGERS ARE PROHIBITED** during aerial application of this product unless in totally enclosed vehicles."

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## 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.

**DANGER:** 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.

## 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 to certain crops.

## USE AND APPLICATION DIRECTIONS

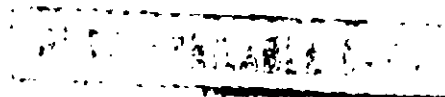
Helena Phosdrin can be used in conventional hydraulic sprayers, low-volume ground applicators, or airplane sprayers. Use this product only for recommended purposes and at recommended dosages. For best results consult the State Agricultural Extension Service for timing recommendations. Mix with water 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 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 to neighboring crops or areas.



### 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 1200 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 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 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 worms, 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.

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#### **VEGETABLE CROPS**

**ARTICHOKES:** For control of aphids use 1/4 to 1/2 pt. per acre. For control of plume 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, leathoppers, 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, leathopper, 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, leathoppers, 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, leathoppers, 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 leathoppers, 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, leathopper, 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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**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.

**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 Cataloupes, Honey Dew Melons, Muskmelons, Watermelons):** For control of aphids use 1/4 to 1/2 pts. 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.

**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.

**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.

**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 should be applied in a closed greenhouse (close all doors, windows and

**PHOSDRIN**



**CONDITIONS OF SALE - LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Helena warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of Helena. Helena makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warrant shall be implied by law.

The exclusive remedy against Helena for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against Helena exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Helena shall not be liable and any and all claims against Helena are waived, for special, indirect, incidental, or consequential damages or expense, of any nature, including, but not limited to, loss of profits or income, whether or not based on Helena's negligence, breach of warranty, strict liability in tort or any other cause of action.

Helena and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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

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A-79 ENCLOSURE  
(Revised January, 1979)

Final printed labeling is defined as that labeling which will accompany the pesticide product to market, and includes not only the container label, but also all accompanying technical information, brochures, etc.

When submitting final printed labeling for the Agency's files, they should be submitted so that they may be stored conveniently in 8 1/2 by 11 inch files. Labels may be mounted or photoreduced to meet the size requirements provided the printing is legible and is of microfilm reproduction quality. Should photoreduction make any of the text illegible the text must be typed out on an accompanying sheet of paper.

- I. Paste-on labeling. This should be submitted as is, unless it requires photoreduction.
- II. Screen print labeling. These labels should be submitted by taping paper on the container as it goes through the printing process. The actual container should not be submitted.
- III. Embossed labeling. This should be photocopied.
- IV. Unusual size labeling. Large bags or boxes must be photo-reduced. Either the entire label on one reduction or in sections so that each section is 8 1/2 by 11 inches.

The references for the above are 40 C.F.R. Section 162.10(a)(6) and 40 C.F.R. Section 162.44.

**BEST AVAILABLE COPY**