

Reg # = 4581-292

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 23 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Rebecca A. Clemmer
ELF ATOCHREM NORTH AMERICA INC.
AGRICHEMICALS DIV.
2000 Market Street, 21st Floor
Philadelphia, PA 19103

Subject: Label Amendment Submission of 09/15/93 in Response to PR Notice 93-7
EPA Reg. No. 4581-292
PENNCAP-M MICROENCAPSULATED INSECTICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



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Printed with Soy/Canola ink on paper that
contains at least 50% recycled fiber

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Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

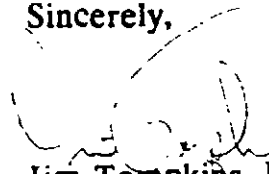
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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Rebecca A. Clemmer
ELF ATOCHEM NORTH AMERICA INC
AGRICHEMICALS DIV
2000 MARKET ST, 21ST FLOOR
PHILADELPHIA PA 19103

Comment for: EPA Reg Nr.4581-292
PENNCAP-M MICROENCAPSULATED INSECTICIDE

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The eyewear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Protective Eyewear". The exact location is shown in Section A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Delete the 72-hour arid area REI statement and the notification statement from your label. EPA has determined that they are not required for products containing methyl parathion as the sole active ingredient.

Correct the typographical errors circled on your proposed label.

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RESTRICTED USE PESTICIDE

Due to very high acute toxicity to humans and birds.

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. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

PENNCAP-M® MICROENCAPSULATED INSECTICIDE

ACTIVE INGREDIENTS:

O,O-Dimethyl O-p-nitrophenyl phosphorothioate*	20.9%
Related Isomers	1.1%
INERT INGREDIENTS	78.0%
TOTAL	100.0%

*Methyl Parathion (contains 2 pounds Methyl Parathion and Related Isomers per Gallon) U.S. Patent Nos. 3,429,827, 3,577,515, 3,959,464

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

IF SWALLOWED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

IF ON SKIN, immediately wash with soap and water and flush with plenty of water.

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

Refer to back panel for Precautionary and First Aid Statements and Note to Physician.

EPA Registration No. 4581-292 EPA Establishment No. _____

NET CONTENTS: _____ U.S. GALLONS/ _____ LITERS

Sold By:
Elf Atochem North America, Inc.
Agchem Division
Philadelphia, PA

ACCEPTED
with COMMENTS
In EPA Letter Dated

3 1994

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

4581-292

GENERAL INFORMATION

PENNCAP-M is a flowable formulation consisting of water suspension of polymeric-type microcapsules which contain methyl parathion. It is applied by air or ground equipment by diluting it with an amount of water suitable for the specific crop and type of spraying equipment. For air application, use at least 2 gallons total spray per acre unless specified otherwise.

First add approximately half of the water to the spray tank, then add the required quantity of PENNCAP-M with good agitation, and finally add the rest of the water. This procedure should be followed to insure proper mixing of PENNCAP-M.

Mixtures of PENNCAP-M with emulsifiable concentrates, organic solvents, or some surfactants may cause increased toxicity and shorter residual effectiveness. This effect is more pronounced with concentrated sprays and extended periods between mixing and application.

DO NOT USE SCREEN OR NOZZLES FINER THAN 50 MESH. STIR OR SHAKE BEFORE USING.

PENNCAP-M will not control organophosphate resistant insects.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

(cont.)

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. The 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls over long-sleeved shirt and long pants;
- waterproof gloves;
- chemical-resistant footwear plus socks;
- protective eyewear; and
- chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

During aerial application, human flaggers are only permitted if in totally enclosed vehicle or if wearing the PPE specified above for early entry.

wrong placement ←

Field Crops

Crop	Insects	Plats/Acre	Remarks
Alfalfa	Blue Alfalfa Aphid	1 1/2-2	Do not spray alfalfa during bloom to avoid injury to bees.
	Grasshoppers*	2-3	

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PennCap-M²

Crop	Insects	Pints/Acre	Remarks
	Alfalfa Blotch Leafminer Alfalfa Plant Bug Alfalfa Weevil (larvae and adults) Green Cloverworm Potato Leafhopper Pea Aphid Spittlebugs Tarnished Plant Bug	2-3	Do not apply to alfalfa grown for seed within 7 days prior to bloom or while bloom is present in the treatment area. Do not apply within 15 days of harvest or grazing. Do not apply if the weeds in the treatment area are in bloom.
	Cutworms Egyptian Alfalfa Weevil	2-4	
Corn (Field)	Corn Rootworm Adults (for protection of silks)	1-2	First Generation European Corn Borer: Whorl Application—2 pints per acre by ground Broadcast Application—3 to 4 pints per acre
	Grasshoppers*	2-3	Second Generation European Corn Borer: Broadcast Application—2 to 4 pints per acre.
	Aphids Flea Beetles True Armyworm**	2-3	Use the low rate for light infestations.
	Corn Earworm European Corn Borer Southwestern Corn Borer Western Bean Cutworm	2-4	When environmental conditions favor extended moth flights of the second generation of European Corn Borer, two correctly timed applications of PENNCAP-M at the lowest recommended rate may provide improved control over a single application at a higher rate.** Apply PENNCAP-M at 2 pints/acre at the time of the initial hatch of the second generation. Repeat 10-14 days later.
	Black Cutworm	4	For low volume aerial applications to control Corn Rootworm Adults, Aphids, European Corn Borer and Western Bean Cutworm use the indicated rates of PENNCAP-M at a minimum of 1/4 gallon total spray per acre.** Application of undiluted PENNCAP-M is not recommended. Equipment that has been specially adapted and calibrated for low volume should be used. Best control will be achieved using spray devices that will produce droplets within the size range of 100 to 200 microns. The following conditions must be met: 1. Equipment must be adjusted to distribute spray uniformly over the spray swath. 2. Wind conditions and other factors such as temperature and humidity are such that the spray is deposited on the target. 3. Local regulations do not prohibit low volume aerial sprays. For most efficient European Corn Borer and Corn Earworm control, use a spray schedule suitably adapted to the area. For best Black Cutworm control, apply PENNCAP-M under moist soil conditions. To avoid injury to bees, do not apply during pollen shed if bees are visiting the areas to be treated during their normal foraging hours. Do not harvest, cut for forage, or graze within 12 days of application.

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Crop	Insects	Pints/Acre	Remarks
Corn (Sweet)	Corn Rootworm Adults (for protection of silks)	1-2	First Generation European Corn Borer Whorl Application—2 pints per acre by ground Broadcast Application—3 to 4 pints per acre.
	Grasshoppers*	2-3	Second Generation European Corn Borer
	Aphids Flea Beetles True Armyworm**	2-3	Broadcast Application—2 to 4 pints per acre Repeat applications as necessary to maintain control
	Corn Earworm European Corn Borer Sap Beetles	2-4	For most efficient European Corn Borer and Corn Earworm control, use a spray schedule suitably adapted to the area.
	Black Cutworm	4	For best Black Cutworm control, apply PENNCAP-M under most soil conditions. To avoid injury to bees, do not apply during pollen shed if bees are visiting the areas to be treated during their normal foraging hours Do not apply later than 3 days before harvest Do not cut for forage or graze within 12 days of application
Cotton	Flea-hoppers Plant Bugs (including Lygae spp.) Thrips**	1/2-1	Do not apply within 7 days of hand picking or harvest
	Boll Weevil	1-3	
	Bollworm Tobacco Budworm	4-6	
Rangeland, Pasture, Grass grown for seed production, and Roadside Areas	Grasshoppers*	2-3	Do not apply within 15 days of harvest or grazing
	Thrips**	2	
	True Armyworm**	2-3	
Rice	Stink Bugs	1-2	Do not apply within 14 days of application of propanil
	Grasshoppers*	2-3	Do not apply within 15 days of harvest
Soybeans	Grasshoppers*	2-3	Do not make more than 2 applications per season. Do not apply within 20 days of harvest or grazing
	Bean Leaf Beetle Green Cloverworm Mexican Bean Beetle Potato Leafhopper Sivernspotted Skipper Semi Bug Three-cornered Alfalfa Hopper Thrips** Velvetbean Caterpillar	2-3	
	Corn Earworm (Podworm) Japanese Beetle**	3-4	
	Aphids (including Greenbug) Grasshoppers* True Armyworm**	2-3 2-3 2-3	Do not apply within 15 days of harvest or grazing

Fruit Crops

Crop	Insects	Pints/Acre	Remarks
Apples and Pears	Apple Maggot Apple and Thorn Skeletonizer Codling Moth Fruit Tree Leafroller** Green Fruitworm Lemon Appleworm Obliquebanded Leafroller** Oriental Fruit Moth Oyster Shell Scale** Pandemis Leafroller** Pear Plant Bug (pears only) Plum Curculio Redbanded Leafroller** San Jose Scale Tarnished Plant Bug Tufted Apple Budmoth Variegated Leafroller** White-marked Tussock Moth Woolly Apple Aphid**	4-8 OR 1-2 pints/100 gals of dilute spray	Under heavy insect pressure, use the higher dosage, consult your local agricultural experiment station for proper timing of sprays Do not apply more than 8 pints per acre per treatment. Do not tank-mix PENNCAP-M with streptomycin since injury to fruit and foliage may result Do not apply to D'Anjou pears as a concentrate or semi-concentrate spray since fruit injury is likely to occur Do not make initial application before total petal fall Do not apply when a substantial number of weeds or cover crops in orchards are in bloom and bees are actively visiting the area to be treated. Do not apply within 14 days of harvest
	Cherries	Black Cherry Aphid** Fruit Flies (including Cherry Fruit Fly) Green Fruitworms Leafrollers** Plum Curculio	3-6 OR 1-2 pints/100 gals. of dilute spray
Grapes	Grapevine Aphids Grape Blossom Midge Eastern Grapevine Leafhopper Potato Leafhopper Redbanded Leafroller**	4 OR 2 pints/100 gals. of dilute spray	Do not apply more than 12 pints per acre per treatment Do not apply within 14 days of harvest
	Grape Berry Moth Japanese Beetle**	4-8 OR 2-4 pints/100 gals. of dilute spray	
	Rose Chafer	6-8 OR 3-4 pints/100 gals. of dilute spray	
	Western Grapevine Leafhopper	8-12 OR 4-6 pints/100 gals. of dilute spray	

Crop	Insects	Pints/Acre	Remarks
Nectarines, Peaches, Plums, and Prunes	Lesser Peachtree Borer	4-6	Do not apply more than 8 pints per acre per treatment. Do not apply more than 2 1/2 gallons per acre per year to nectarines. Do not make initial application before total petal fall. Do not apply when a substantial number of weeds or cover crops in orchards are in bloom and bees are actively visiting the area to be treated. Do not graze or feed cover crops from treated orchards. Do not apply later than 14 days before harvest.
	Peachtree Borer	1-2 pints/100 gals of dilute spray	
	Catfacing Insects Oriental Fruit Moth Plum Curculio	3-6 OR 1-2 pints/100 gals. of dilute spray	
	Peach Twig Borer	8	Do not apply in less than 200 gallons per acre. Make dormant or delayed dormant applications only. May be mixed with suitable spray oil. Do not allow tank mixes of PENNCAP-M and oil to stand but use immediately. For precautions relating to the protection of pollinators and the grazing or feeding of cover crops, see above.
Nectarines and Peaches (Arizona and California only)	Insects as above	As above	Do not use more than 2 1/2 gallons per acre on peaches from January 1 to harvest. Do not use more than 8 pints per acre per treatment when using dilute sprays on nectarines. Do not apply more than 2 1/2 gallons per acre per year to nectarines. For precautions relating to the protection of pollinators and the grazing or feeding of cover crops, see above. Do not apply within 21 days of harvest.

Vegetable Crops

Crop	Insects	Pints/Acre	Remarks
Beans (Dry, Southern Peas)	Aphids** Cucumber Beetles (Diabrotica spp.) Green Cloverworm Leafhoppers Lygus Bugs Mexican Bean Beetle	2	Beans—To avoid injury to bees, do not apply during the period from 7 days prior to first bloom through peak bloom. After this time, PENNCAP-M may be applied to beans as long as bees are not actively visiting the area. Southern Peas—Start application when blooms are first observed and repeat at 3 to 5 day intervals. Do not apply within 15 days of harvest.
	Cowpea Curculio European Corn Borer	2-4	
	Corn Earworm	4	
Succulent Beans (except California)	Aphids** Cucumber Beetles (Diabrotica spp.) Green Cloverworm Leafhoppers Lygus Bugs Mexican Bean Beetle	2	Do not make more than 3 applications per season. Do not apply within 3 days of harvest. For succulent Beans in California, follow directions for Beans above.
	Cowpea Curculio European Corn Borer	2-4	
	Corn Earworm	4	
Succulent Beans (California)			For succulent beans in California, follow directions under Beans (Dry, Southern Peas) above, same insects and rates.
Cabbage	Diamondback Moth** Flea Beetles	2-4	Do not apply within 21 days of harvest.

Crop	Insects	Pints/Acre	Remarks
	Imported Cabbageworms	4-6	
Onions	Thrips	2	Do not apply when onions are blooming to avoid injury to bees. Do not apply within 15 days of harvest.
Peas (White Blooming/Peas (Austrian Winter)	Pea Aphid Pea Leaf Weevil Pea Weevil	2	Do not apply more than 4 pints per acre per year. To avoid injury to bees, do not apply if bees are visiting the areas to be treated when crops or weeds are in bloom. Do not apply within 10 days of harvest for pods. Do not harvest for forage or graze within 15 days of application.
Potatoes	Grasshoppers*	2-3	Do not apply within 5 days of harvest.
	Curworms European Corn Borer Flea Beetles Potato Leafhopper Tarnished Plant Bug	2-4	
	Colorado Potato Beetle	2-6	
Tomatoes	Flea Beetles Leafminers	4	Do not apply within 15 days of harvest.
	Colorado Potato Beetle Hornworms Tomato Fruitworm Tomato Pinworm	4	

* For grasshoppers, use higher rates if the majority of insects are large or weather is cool.

** Not for this use in California.

ULV AERIAL APPLICATION IN WATER TO COTTON
NOT FOR THIS USE IN CALIFORNIA

APPLICATION INSTRUCTIONS

Use spray equipment that has been specifically adapted and calibrated for ultra-low-volume spraying of PENNCAP-M. The following conditions are to be met:

1. Equipment must be adjusted to distribute the spray uniformly over the spray swath.
 2. Do not apply when wind conditions favor drift from treated areas.
- Spray equipment should be cleaned as soon as possible after completion of spraying. Strainers should be cleaned daily. Do not allow PENNCAP-M to dry in or on application equipment before cleaning.

Crop	Insect	Rates	Remarks
Cotton	Boll Weevil	PENNCAP-M 1-2 pints Plus an equal amount of water 1-2 pints	Begin applications when damaging levels of boll weevils appear. Repeat applications as necessary to maintain insect control. Add a material for Heliothis control to the tank mix when bollworms and/or budworms (Heliothis spp.) are present. Use the rate recommended on the label for the specific material used. Cotton may be machine harvested any time after application.

CHEMIGATION

NOT FOR THIS USE IN CALIFORNIA
GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun.

PennCap-M®

solid set, or band move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply PENNCAP-M Insecticide only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. All screens should be 50 mesh or larger.

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable pest control may result.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

PENNCAP-M may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

SPRAY PREPARATION:

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of PENNCAP-M Insecticide in a mix tank. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCAP-M and then the remaining volume of water.

APPLICATION INSTRUCTIONS:

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of PENNCAP-M into the irrigation water line so as to deliver the desired rate per acre. The suspension of PENNCAP-M should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE: When treatment with PENNCAP-M has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

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

WARNING

MAY BE FATAL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Avoid contact with skin, eyes, or clothing. Avoid breathing vapors and spray mist. Use in ventilated areas since accumulation of xylene vapors may be hazardous. Use with adequate ventilation. Avoid prolonged breathing of vapor.

If you feel sick in any way, STOP work and get help right away. See First Aid (Practical Treatment) section on main container label.

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

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- coveralls over long-sleeved shirt and long pants;
- waterproof gloves;
- chemical-resistant footwear plus socks;
- chemical-resistant headgear for overhead exposure;
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G);
- For exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS:

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID: Call a physician in all cases of suspected poisoning. It is suggested that a suitably equipped local medical facility be identified prior to using this product.

Warning symptoms of organophosphate poisoning include weakness, headache, tightness in chest, blurred vision, non-reactive pinpoint pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps. If these symptoms appear transport the patient immediately to the nearest hospital. Keep the patient prone and quiet. Start artificial respiration immediately if patient is not breathing.

Note to Physician: The active ingredient of PENNAP-M is an organophosphate cholinesterase inhibitor. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. Morphine is contraindicated.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Shrimp and other aquatic organisms may be killed at recommended application rates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift or runoff from target areas.

THIS PRODUCT IS HIGHLY TOXIC TO BEES exposed to direct treatment or residues on crops or blooming weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the areas to be treated. Refer to and follow the more specific and applicable precautions in the directions for certain crops. Protective information may be obtained from your Cooperative Extension Service.

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STORAGE AND DISPOSAL

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

Storage Instructions: Store in the original container. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions listed below.

Pesticide Disposal Instructions: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

Supplemental labels are available for Tank Mixes for use on the following crops:

Apples and Pears - PENNCAP-M	-	aznphos-methyl 50W
Apples - PENNCAP-M	-	methomyl 1 BL and methomyl 90SP
Apples - PENNCAP-M	-	Thiodan 50 WP
Cotton - PENNCAP-M	-	Ortbene Insecticide
Cotton - PENNCAP-M	-	Ambush Insecticide
Cotton - PENNCAP-M	-	Pydno Insecticide

Contact your Regional office for a copy of the label.

WARRANTY AND DISCLAIMER

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