



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 4581-292	2. EPA Product Manager D. Edwards	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PENNCAP-M Microencapsulated Insecticide	PM# 19	
5. Name and Address of Applicant (Include ZIP Code) Elf Atochem North America, Inc. Agrichemicals Division, 21st Floor 2000 Market Street, Phila., PA 19103-3222 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Notification of: addition of pests  
 This notification is consistent with the provisions of FR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of FR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rebecca A. Clemmer	Title Mgr. Product Registration	Telephone No. (Include Area Code) 215-419-7167
2. Signature Rebecca A. Clemmer		3. Title Mgr. Product Registration
4. Typed Name Rebecca A. Clemmer		5. Date Oct. 10, 1995
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)

**elf atochem**

**ATO**

**RESTRICTED USE PESTICIDE**

Due to residual effects to avian species and hazard to bees.  
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.

**WP**

# PENNCAP-M<sup>®</sup>

## MICROENCAPSULATED INSECTICIDE

**ACTIVE INGREDIENTS:**

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

\*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  
AVISO WARNING**

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. Get medical attention.

**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: 5505-AR-1

Net Contents \_\_\_\_\_

Sold by:

**ELF ATOCHEM NORTH AMERICA, INC. — AGCHEM DIVISION**  
2000 Market Street, Philadelphia, PA 19103

**GENERAL INFORMATION**

PENNCAP-M is a flowable formulation consisting of a 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.

**Mixing Instructions**—First fill the tank with 1 to 1½ gallons of water for each gallon of PENNCAP-M to be used. Start mechanical or hydraulic agitation. Slowly add the required amount of PENNCAP-M, agitate a few minutes; continue agitating and add the remaining volume of water. This procedure should be followed to insure proper mixing of PENNCAP-M.

**For Tank Mixes:** After pre-mixing PENNCAP-M and water as described above, fill the tank ½ to ¾ full. Add tank mix products in the following order:

1. Wettable powders
2. Dry flowable or Wettable dry granules
3. Flowables
4. Emulsifiable concentrates
5. Fertilizer products

Add the remaining volume of water.

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.

**PENNCAP-M IS HAZARDOUS TO BEES** exposed to direct treatment or residues on blooming crops and/or blooming weeds. Do not apply PENNCAP-M or allow it to drift to blooming crops and/or blooming weeds if bees are foraging the areas to be treated. Refer to and follow the more specific and applicable precautions in the directions for certain crops. Information for protecting bees may be obtained from Elf Atochem North America at 1-800-797-5338 or your local Extension Service.

changed

**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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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 and socks;
- protective eyewear; and
- chemical-resistant headgear for overhead exposure.

**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. Do not contaminate water by disposal of equipment washwaters.

**FIELD CROPS**

Crop	Insects	Pints/Acre	Remarks
Alfalfa	Blue Alfalfa Aphid	1½-2	Do not apply if alfalfa or weeds in the area are in bloom.  Do not apply to alfalfa grown for seed 7 days prior to bloom or while bloom is present in the treatment area.  Do not apply within 15 days of harvest or grazing.
	Alfalfa Blotch Leafminer	2-3	
	Alfalfa Plant Bug		
	Alfalfa Weevil (larvae and adults)		
Corn (Field)	Grasshoppers*		Do not apply during pollen shed if bees are foraging in the areas to be treated.  First Generation European Corn Borer Whorl Application—2 pints per acre by ground. Broadcast Application—3 to 4 pints per acre.  Second Generation European Corn Borer Broadcast Application—2 to 4 pints per acre. Use the low rate for light infestation. When environmental conditions favor moth flights of the second generation European Corn Borer, two consecutive applications of PENNCAP-M at the recommended rate may provide improved control over a single application at a high rate.  Apply PENNCAP-M at 2 pints/acre at the initial hatch of the second generation. Repeat 10-14 days later.  For low volume aerial applications to control Corn Rootworm Adults, Aphids, European Corn Earworm and Western Bean Cutworm use the indicated rates of PENNCAP-M at a minimum ½ gallon total spray per acre. ** Application of undiluted PENNCAP-M is not recommended. Equipment that has been specially adapted for low volume should be used. Control will be achieved using spray droplets of 100 to 200 microns. The following conditions must be met:  1. Equipment must be adjusted to disperse spray uniformly over the spray swath. 2. Wind conditions and other factors such as temperature and humidity are such that spray is deposited on the target. 3. Local regulations do not prohibit low volume aerial sprays.  For most efficient European Corn Borer control, use a spray schedule suitably adapted to the area.  For best Black Cutworm control, apply PENNCAP-M under moist soil conditions.  Do not harvest, cut for forage, or graze within 12 days of application.
	Corn Rootworm Adults	1-2	
	Stinkbugs**	1-3	
	Aphids	2-3	
	Flea Beetles		
	Grasshoppers*		
	True Armyworm**		
	Corn Earworm	2-4	
	European Corn Borer		
	Japanese Beetle		
Sap Beetles			
Silk Fly**			
Black Cutworm	4		
Corn (Sweet)	Corn Rootworm Adults	1-2	Do not apply during pollen shed if bees are foraging in the areas to be treated.  First Generation European Corn Borer Whorl Application—2 pints per acre by ground. Broadcast Application—3 to 4 pints per acre.  Second Generation European Corn Borer Broadcast Application—2 to 4 pints per acre. Repeat applications as necessary to maintain control.  For most efficient European Corn Borer control, use a spray schedule suitably adapted to the area.  For best Black Cutworm control, apply PENNCAP-M under moist soil conditions.  Do not apply later than 3 days before harvest.  Do not cut for forage or graze within 12 days of application.
new	Stinkbugs**	1-3	
	Aphids	2-3	
	Flea Beetles		
new	Grasshoppers*		
	True Armyworm**		
	Corn Earworm	2-4	
	European Corn Borer		
Japanese Beetle			
Sap Beetles			
Silk Fly**			
Black Cutworm	4		

FIELD CROPS continued

Crop	Insects	Pints/Acre	Remarks	
Cotton	Flashoppers Plant Bugs Thrips**	1/2-1	Do not apply if bees are foraging in the areas to be treated.	
	Root Weevil Stinkbugs**	1-3	For Lygus, use the higher rates for increased populations after cotton is beyond pinhead square stage. For Aphid suppression only. Will not control populations resistant to organophosphate insecticides.	
	Bollworm Tobacco Budworm	4-6		
	Pink Bollworm** Whitely** (see remarks)	2-4	For Whitely: EII Atochem recommends PENNCAP-M be tank-mixed with amirraz, a pyrethroid, or non-organophosphate insecticide known to be effective on this pest. Refer to local Cooperative Extension Service for more information on the control of Whitely.	
	Lygus**	1/2-4		
	Aphids** (suppression)	1-4	Do not apply within 7 days of hand picking or harvest.	
	Soybean Looper**	2-3		
Rangeland, Pasture, Grass grown for seed production, and Roadside Areas	Grasshoppers* True Armyworm**	2-3	Do not apply within 15 days of harvest or grazing.	
	Thrips**	2		
Rice	Stinkbugs	1-2	Do not apply within 14 days of application or preplant.	
	Grasshoppers*	2-3	Pre-harvest interval: 15 days.	
Soybeans	Stinkbugs**	1-3	Do not make more than 2 applications per season.	
	Bean Leaf Beetle Grasshoppers* Green Cloverworm Mexican Bean Beetle Potato Leafhopper Spinespotted Skipper Soybean Looper**	2-3	Do not apply within 20 days of harvest or grazing.	
	Stinkbugs Threecornered Alfalfa Hopper Thrips** Velvetbean Caterpillar			
	Corn Earworm (Podworm) Japanese Beetle**	3-4		
	Wheat, Oats, and Barley	Stinkbugs**	1-3	Do not apply within 15 days of harvest or grazing.
	Aphids (including Greenbug) Grasshoppers* True Armyworm**	2-3		

\*For grasshoppers, use higher rates if the majority of insects are large or weather is cool.  
\*\*Not for this use in California.

NOTE: Dilute sprays are not to exceed maximum rate per acre.

FRUIT CROPS — EXCEPT CALIFORNIA

Crop	Insects	Pints/Acre	Remarks
Apples and Pears	Apple Maggot	2-8	Do not make initial application before total petal fall. Do not apply when weeds or cover crops in orchards are in bloom and bees are foraging in the areas to be treated. Application should not be made during non-foraging hours (including nighttime) when bees have been observed during normal foraging hours that day.
	Apple and Thorn Skeletonizer Codling Moth European Corn Borer	OR	
	Fruit Tree Leafroller Green Fruitworm Japanese Beetle Lesser Appleworm Mealybug	1/2 - 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.
	Obliquebanded Leafroller Oriental Fruit Moth Oyster Shell Scale Pandemis Leafroller Pear Plant Bug (pears only) Plum Curcub Redbanded Leafroller San Jose Scale Tarnished Plant Bug Tufted Apple Budmoth Variegated Leafroller White-marked Tussock Moth Woolly Apple Aphid		Do not make applications at less than 7 day intervals. Do not make more than 5 applications from total petal fall to harvest. In areas where annual rainfall exceeds 25 inches: Pre-harvest interval: 2-4 pts/acre, 14 days; Over 4 pts/acre, 21 days. In areas where annual rainfall is less than 25 inches: Pre-harvest interval: 30 days. Do not tank-mix PENNCAP-M with streptomycin since injury to fruit and foliage may result. Note: Application to d'Anjou pears as a concentrate or semi-concentrate spray may lead to fruit injury.

FRUIT CROPS — EXCEPT CALIFORNIA continued

Crop	Insects	Pints/Acre	Remarks
Cherries	Black Cherry Aphid Fruit Flies (including Cherry Fruit Fly) Green Fruitworms Leafrollers Plum Curcub	3-6 OR 1-2 pints/100 gals. of dilute spray	Do not make initial application before total petal fall. Do not apply when weeds or cover crops in orchards are in bloom and bees are foraging in the areas to be treated. Application should not be made during non-foraging hours (including nighttime) when bees have been observed during normal foraging hours that day. For additional control during post-harvest period, treat interplanted trees, all unpicked fruit, and pollinators. Do not use in areas where annual rainfall is less than 25 inches. In areas where annual rainfall exceeds 25 inches: Do not make initial application before total petal fall. Do not make applications at less than 7 day intervals. Do not make more than 6 applications from total petal fall to harvest. Pre-harvest interval: 14 days. Do not graze or feed cover crops from treated orchards.
	Grapes	Grapevine Aphids Grape Blossom Midge Eastern Grapevine Leafhopper Mealybug Potato Leafhopper Redbanded Leafroller Grape Berry Moth Japanese Beetle Rose Chaler Western Grapevine Leafhopper	4-12 OR 2-6 pints/100 gals. of dilute spray
Nectarines, Peaches, Plums, and Prunes	Japanese Beetle Lesser Peachtree Borer Peachtree Borer Stinkbugs White Peach Aphid	4 1/2-6 OR 1 1/2-2 pints/100 gals. of dilute spray	Do not apply when weeds or cover crops in orchards are in bloom and bees are foraging in the areas to be treated. Application should not be made during non-foraging hours (including nighttime) when bees have been observed during normal foraging hours that day.
	Catfacing Insects Oriental Fruit Moth Plum Curcub	2-6 OR	Do not make first application before total petal fall except for post-harvest, dormant or delayed dormant (pre-bloom) applications.
	San Jose Scale	2 1/2-2 pints/100 gals. of dilute spray 6	Do not make applications at less than 7 day intervals. Do not make more than 4 applications from total petal fall to harvest. Do not make more than 6 applications per year. In areas where annual rainfall exceeds 25 inches: Pre-harvest interval: 2-3 pints/acre, 21 days; Over 3 pints/acre, 28 days. In areas where annual rainfall is less than 25 inches: Pre-harvest interval: 14 days. Do not apply more than 2 1/2 gallons per acre per year to nectarines. Do not graze or feed cover crops from treated orchards.
	Peach Twig Borer	8	Do not apply in less than 200 gallons dilute spray per acre. Use as a post harvest, a dormant or delayed dormant (pre-bloom) application. 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.

NOTE: Dilute sprays are not to exceed maximum rate per acre. For use patterns such as alternate row middle sprays, each treated area may receive the maximum number of applications allowed. "Treated area" is that area in which the pesticide was directed.

**FRUIT CROPS — CALIFORNIA ONLY**

Crop	Insects	Pints/Acre	Remarks
Apples and Pears <i>new</i>	Apple Maggot Apple and Thorn Skeletonizer Codling Moth European Corn Borer Oriental Fruitworm Japanese Beetle Lesser Appleworm Oriental Fruit Moth Pear Plant Bug (pears only) Plum Curculio San Jose Scale Tarnished Plant Bug Tufted Apple Budmoth White-marked Tussock Moth	4-8 OR 1-2 pints/100 gals. of dilute spray	Do not make initial application before total fall, petal fall. Do not apply when weeds or cover crops in orchards are in bloom and bees are foraging in the areas to be treated. Application should not be made during non-foraging hours (including nighttime) when bees have been observed during normal foraging hours that day.  Under heavy insect pressure, use the higher dosage; consult your local agricultural experiment station for proper timing of sprays.  Do not make applications at less than 7 day intervals.  Do not make more than 5 applications from total petal fall to harvest.  Pre-harvest interval: 30 days.  Do not tank-mix PENNCAP-M with streptomycin since injury to fruit and foliage may result.  Note: Application to d'Anjou pears as a concentrate or semi-concentrate spray may lead to fruit injury.
Grapes	Grapevine Aphids Grape Blossom Midge Eastern Grapevine Leafhopper Potato Leafhopper	4 OR 2 pints/100 gals. of dilute spray	Use only as a post-harvest dormant, or delayed dormant (pre-bloom) application.  Do not make more than 2 applications per year.  Do not make applications at less than 7 day intervals.
	Grape Berry Moth	4-8 OR 2-4 pints/100 gals. of dilute spray	
	Rose Chater	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	
	Lesser Peachtree Borer Peachtree Borer	4 1/2-6 OR 1 1/2-2 pints/100 gals. of dilute spray	
Nectarines, Peaches, Plums, and Prunes <i>new</i>	Carfacing Insects Oriental Fruit Moth Plum Curculio	3-6 OR 1-2 pints/100 gals. of dilute spray	Do not make first application before total petal fall except for post-harvest, dormant or delayed dormant (pre-bloom) applications.  Do not make applications at less than 7 day intervals.  Do not make more than 4 applications from total petal fall to harvest.
	San Jose Scale	6	Do not make more than 6 applications per year.  Pre-harvest interval: 21 days.  Do not apply more than 2 1/2 gallons per acre per year to nectarines.  Do not graze or feed cover crops from treated orchards.
	Peach Twig Borer	3	Do not apply in less than 200 gallons dilute spray per acre.  Use as a post harvest, a dormant or delayed dormant (pre-bloom) application. 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.

NOTE: Dilute sprays are not to exceed maximum rate per acre.

**VEGETABLE CROPS**

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Crop	Insects	Pints/Acre	Remarks
Beans (Dry, Southern Peas) <i>new</i>	Aphids ** Cucumber Beetles (Diabrotica spp.) Green Cloverworm Leafhoppers Lygus Bugs Mexican Bean Beetle	2	Southern Peas—Start application when blooms are first observed and repeat at 3 to 5 day intervals.  Pre-harvest interval: 15 days.
	Cowpea Curculio European Corn Borer Stinkbugs**	2-4	
	Corn Earworm	4	
Succulent Beans (except California) <i>new</i>	Aphids Cucumber Beetles (Diabrotica spp.) Green Cloverworm Leafhoppers Lygus Bugs Mexican Bean Beetle	2	Do not apply more than 12 pints of PENNCAP-M per season.  Do not make applications at less than 7 day intervals.  In areas where average annual rainfall exceeds 25 inches: Pre-harvest interval: 3 days.  In areas where average annual rainfall is less than 25 inches: Pre-harvest interval: 7 days.
	Cowpea Curculio European Corn Borer Stinkbugs	2-4	
	Corn Earworm	4	
Succulent Beans (California)	Cucumber Beetles (Diabrotica spp.) Green Cloverworm Leafhoppers Lygus Bugs Mexican Bean Beetle	2	Do not apply more than 12 pints of PENNCAP-M per season.  Do not make applications at less than 7 day intervals.  Pre-harvest interval: 15 days.
Cowpea Curculio European Corn Borer	2-4		
Corn Earworm	4		
Onions	Thrips	2	Do not apply when onions are blooming and bees are foraging the areas to be treated.  Pre-harvest interval: 15 days.
Peas (White Blooming) Peas (Austrian Winter)	Pea Aphid Pea Leaf Weevil Pea Weevil	2	Do not apply if peas are blooming and bees are foraging the areas to be treated.  Do not apply more than 4 pints per acre per year.  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	Pre-harvest interval: 5 days.
	Cutworms European Corn Borer Flea Beetles Potato Leafhopper Tarnished Plant Bug	2-4	
	Colorado Potato Beetle	2-6	
	Tomatoes	Thrips** Stinkbugs** Aphids** (suppression) Flea Beetles Leafminers	
Tomatoes <i>new</i>	Japanese Beetle** Colorado Potato Beetle Cutworms** Hornworms Tomato Fruitworm Tomato Pinworm	3-4 4	For Aphid suppression only. Will not control populations resistant to organophosphate insecticides.  Do not apply to cherry tomatoes.  Pre-harvest interval: 5 days.

\*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	Rate	Remarks
Cotton	Boll Weevil 1-2 pints	PENNCAP-M treated. Plus an equal amount of water 1-2 pints	Do not apply if bees are foraging in the areas to be treated.  Begin applications when damaging levels of boll weevil appear. Repeat applications as necessary to maintain insect control.  Aerial 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.

**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. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. 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 National 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;
- protective eyewear;
- chemical-resistant headgear for overhead exposure; and
- 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.

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

**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 pin-point 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 PENNCAP-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.

**CHEMIGATION  
NOT FOR THIS USE IN CALIFORNIA  
GENERAL INSTRUCTIONS**

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

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 disease 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 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.

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

Apples and Pears - PENNCAP-M	+	azinphos-methyl 50W
Apples - PENNCAP-M	+	methidathion 1.2L methomyl 90S?
Apples - PENNCAP-M	+	Thiodan® 50 WP
Cotton - PENNCAP-M	+	Orthene® Insecticide
Cotton - PENNCAP-M	+	Ambush® Insecticide
Cotton - PENNCAP-M	+	Pydrin® Insecticide

Contact your Regional office for a copy of the label.

### 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.

### WARRANTY AND DISCLAIMER

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