

ATO
ATOCHEM
 en Equilina

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%

ACCEPTED
 Under the Federal Insecticide, Fungicide and Rodenticide Act
 U.S. Department of Agriculture
 Agricultural Research Service
 4/28/79

* 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

PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

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. 4581-TX-1

Net Contents: _____ U.S. Gallons/ _____ Liters

Sold by:
ATOCHEM NORTH AMERICA—AGCHEM DIVISION
 Philadelphia, PA 19102

DIRECTIONS FOR USE

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

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.

WORK SAFETY RULES

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. 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 First Aid (Practical Treatment) section on main container label.

HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: Wear a cotton or cloth coverall worn over long-sleeved shirt and long-legged pants. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or a face shield. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR part 11.

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF APPLICATION EQUIPMENT, DISPOSAL OF PESTICIDE AND EARLY REENTRY INTO TREATED AREAS: a cotton or cloth coverall worn over long-sleeved shirt and long-legged pants; 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 approved respirator.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeved 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-sleeved 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 into 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 going to the bathroom.

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 clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. 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 heavily contaminated or drenched with methyl parathion must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

DURING AERIAL APPLICATION, human flaggers are only permitted if in totally enclosed vehicle or if wearing the protective clothing specified above for early reentry.

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Reentry into treated fields is prohibited for 48 hours after application, unless all protective clothing and equipment required for early reentry as described under Work Safety Rules are worn.

Written or oral warnings must be given to workers who are expected to be in an area about to be treated with this product. In case of accidental exposure workers should wash thoroughly with soap and water and contaminated clothing should be removed and washed before reuse. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings shall be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING: Area treated with PENNCAP-M* insecticide on (date of application). Do not enter without appropriate protective clothing within 48 hours after application. In case of accidental exposure, workers should wash thoroughly with soap and water and contaminated clothing should be removed and washed before reuse."

FIELD CROPS

Crop	Pests	Pests/Acre	Remarks
Alfalfa	Blue Alfalfa Aphid	11-2	Do not spray alfalfa during bloom to avoid injury to bees
	Grasshoppers*	2-3	
	Alfalfa Blotch Leafhopper Alfalfa Plant Bug Alfalfa Weevil (larvae and adults) Green Cloverworm Potato Leafhopper Paw 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 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
Corn (Field)	Grasshoppers*	2-3	Broadcast Application—3 to 4 pints per acre
	Aphids Flea Beetles True Armyworm**	2-3	Second Generation European Corn Borer Broadcast Application—2 to 4 pints per acre
	Corn Earworm European Corn Borer Southwestern Corn Borer Western Bean Cutworm	2-4	Use the low rate for light infestations 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**
	Black Cutworm	4	Apply PENNCAP-M at 2 pints/acre at the time of 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 Borer and Western Bean Cutworm use the indicated rates of PENNCAP-M at a minimum of 1/2 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
	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
Corn (Sweet)	Grasshoppers*	2-3	Broadcast Application—3 to 4 pints per acre
	Aphids Flea Beetles True Armyworm**	2-3	Second Generation European Corn Borer Broadcast Application—2 to 4 pints per acre
	Corn Earworm European Corn Borer Sap Beetles	2-4	Repeat applications as necessary to maintain control
	Black Cutworm	4	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 apply later than 3 days before harvest Do not cut for forage or graze within 12 days of application
	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
Cotton	Flea-hoppers Plant Bugs (including Lygae spp.) Thrips**	1/2-1	Do not apply within 7 days of hand picking or harvest
	Bor' Weevil	1-1	
	Bollworm Tobacco Budworm	4-6	

Crops	Insects	Pints/Acre	Remarks
Apples, Pears, and other fruit trees	Grasshoppers*	2-3	Do not apply within 15 days of harvest or grazing.
	True Armyworm**	2-3	
Soybeans	Stink Bugs	1-2	Do not apply within 14 days of application of product.
	Grasshoppers*	2-3	Do not apply within 15 days of harvest
Wheat, Oats, Barley	Grasshoppers*	2-3	Do not make more than 2 applications per season.
	Bean Leaf Beetle	2-3	Do not apply within 20 days of harvest or grazing.
	Green Cloverworm		
	Mexican Bean Beetle		
	Peanut Leafhopper		
	Silver-spotted Skipper		
	Stink Bugs		
	Threecornered Alfalfa Hopper		
	Thrips**		
	Velvetbean Caterpillar		
Corn Earworm (Podworm)			
Japanese Beetle**			
Wheat, Oats, Barley	Aphids (including Greenbug)	2-3	Do not apply within 15 days of harvest or grazing
	Grasshoppers*	2-3	
	True Armyworm**	2-3	

Crop	Insects	Pints/Acre	Remarks
Nectarines, Peaches, Plums, and Prunes (cont'd)	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 applications relating to the protection of pollinators and the grazing or feeding of cover crops. See above.
	Insects as above	As 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

CROPS	Insects	Pints/Acre	Remarks			
Apples and Pears	Apple Maggot	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.			
	Apple and Thorn Skeletonizer					
	Codling Moth					
	Fruit Tree Leafroller**					
	Green Fruitworm					
	Lesser Appleworm					
	Oblong-banded Leafroller**					
	Oriental Fruit Moth					
	Oyster Shell Scale**					
	Pandemic Leafroller**					
	Pear Plant Bug (pears only)					
	Plum Curculio					
	Red-banded Leafroller**					
	San Jose Scale					
	Tarnished Plant Bug					
Tufted Apple Budmoth						
Variiegated Leafminer**						
White-marked Tussock Moth						
Woolly Apple Aphid**						
Cherry	Black Cherry Aphid**	3-6 OR 1-2 pints/100 gals of dilute spray	For additional control during post-harvest period, treat interplanted trees, all unspiced fruit, and pollinators. Do not apply more than 6 pints per acre per treatment. 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 within 14 days of harvest.			
	Fruit Flies (including Cherry Fruit Fly)					
	Green Fruitworm					
	Leafrollers**					
	Plum Curculio					
	Grapes			Grapevine Aphids	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 Blossom Midge		
				Eastern Grapevine Leafhopper		
				Potato Leafhopper		
	Raspberries			Red-banded Leafroller**	4-8 OR 2-4 pints/100 gals of dilute spray	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.
Grape Berry Moth						
Roses	Japanese Beetle**	6-8 OR 3-4 pints/100 gals of dilute spray	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.			
	Rose Chafer					
Western Grapes	Western Grapevine Leafhopper	8-12 OR 4-6 pints/100 gals of dilute spray	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.			
Nectarines and Peaches	Lesser Peach-tree Borer	4 1/2-6 OR 1 1/2-2 pints/100 gals of dilute spray	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.			
	Peachtree Borer					
Nectarines and Peaches	Caricating Insects	3-6 OR 1-2 pints/100 gals of dilute spray	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.			
	Oriental Fruit Moth					
	Plum Curculio					

VEGETABLE CROPS	Crop	Insects	Pints/Acre	Remarks
Beans (Dry, Southern Peas)		Aphids**	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.
		Cucumber Beetles (Diabrotica spp.)		
		Green Cloverworm		
		Leafhoppers		
		Lygus Bugs		
Succulent Beans (except California)		Mexican Bean Beetle	2-4	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		
Succulent Beans (California)		Corn Earworm	4	Do not apply within 15 days of harvest
Cabbage		Diamondback Moth**	2-4	Do not apply within 21 days of harvest
		Flea Beetles	4-6	
Onions		Imported Cabbageworms	4-6	Do not apply when onions are blooming to avoid injury to bees. Do not apply within 15 days of harvest
		Thrips	2	
Peas (White Blooming)		Pea Aphid	2	Do not apply more than 4 pints per acre per year. Do not apply if the crop or weeds in the treatment area 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.
		Pea Leaf Weevil		
Peas (Austrian Winter)		Pea Weevil	2	See Peas (White Blooming). Do not apply within 7 days of bloom. Do not apply if the crop or weeds in the treatment area are in bloom.
		Pea Weevil		
Potatoes		Grasshoppers*	2-3	Do not apply within 5 days of harvest
		Cutworms	2-4	
Tomatoes		European Corn Borer		2-4
		Flea Beetles		
Tomatoes		Potato Leafhopper	2-6	Do not apply within 15 days of harvest
		Tarnished Plant Bug		
Tomatoes		Colorado Potato Beetle	2-4	Do not apply within 15 days of harvest
		Leafminers		
Tomatoes		Colorado Potato Beetle	4	Do not apply within 15 days of harvest
		Hornworms		
Tomatoes		Tomato Fruitworm	4	Do not apply within 15 days of harvest
		Tomato Pinworm		

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

Crop	Insects	Pints/Acre	Remarks
Tobacco	Artichoke Plume Moth	4	Do not apply within 7 days of harvest.
Tobacco	Grasshoppers*	2-3	Do not apply within 5 days of pruning. Avoid contact with plant joints when pruning or cutting tobacco.
	Aphids Tobacco Hornworm Vegetable Weevil	2-4	
	Plan Beetle Tobacco Budworm	4-6	

TANK MIX FOR USE ON APPLES
(All Apple Growing Areas East of the Rocky Mountains)

Insects	Rates	Remarks
Apple Maggot Apple and Thorn Skeletonizer Codling Moth Fruit Tree Leafroller Green Apple Aphid Green Fruitworms Lesser Appleworm Oblique-banded Leafroller Oriental Fruit Moth Plum Curculio Red-banded Leafroller San Jose Scale Tentiform Leafminer Tufted Apple Budmoth Variegated Leafroller White Apple Leafhopper Woolly Apple Aphid	PENNCAP-M 2-4 pints/acre Plus THIODAN [®] ① 50WP 2/lbs. acre OR for dilute sprays PENNCAP-M 1/2-1 pint Plus THIODAN 50WP 1/2 lb./100 gallons of spray mixture	Under heavy pressure from maggots, fruitworms, leafrollers, curculio, scale and budmoth use the higher dosage of PENNCAP-M. Do not apply within 21 days of harvest.

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

① THIODAN is a registered trademark of Hoechst AG.

TANK MIX FOR USE ON APPLES
(All Apple Growing Areas Except California)

Insects	Rates	Remarks
Apple Maggot Apple and Thorn Skeletonizer Codling Moth Fruit Tree Leafroller Green Apple Aphid Green Fruitworm Lesser Appleworm Oblique-banded Leafroller Oriental Fruit Moth Oyster Shell Scale Pandemis Leafroller Plum Curculio Red-banded Leafroller San Jose Scale Tarnished Plant Bug Tentiform Leafminer Tufted Apple Budmoth Variegated Leafroller White Apple Leafhopper White-marked Tussock Moth Woolly Apple Aphid	PENNCAP-M 2-4 pints/acre Plus one of the following methomyl 1 8L 2-4 pints/acre methomyl 90SP 1/2-1 lb./acre OR PENNCAP-M 1/2-1 pint Plus one of the following methomyl 1 8L 1/2-1 pint methomyl 90SP 2-4 ounces/100 gallons for dilute spray	Do not apply more than 4 pints PENNCAP-M plus 4 pints methomyl 1 8L or 1 pound methomyl 90SP per acre per treatment. Do not apply within 8 days of harvest.

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

TANK MIXES WITH PENNCAP-M
TANK MIX FOR USE ON APPLES AND PEARS
(All Apple and Pear Growing Areas Except California)

Insects	Rates	Remarks
Apple Maggot Apple and Thorn Skeletonizer Codling Moth Fruit Tree Leafroller Green Fruitworm Lesser Appleworm Oblique-banded Leafroller Oriental Fruit Moth Oyster Shell Scale Pandemis Leafroller Pear Plant Bug (pears only) Plum Curculio Red-banded Leafroller San Jose Scale Tarnished Plant Bug Tufted Apple Budmoth Variegated Leafroller White-marked Tussock Moth Woolly Apple Aphid	PENNCAP-M 2-4 pints/acre Plus azinphos-methyl 50W 1 lb./acre OR PENNCAP-M 1/2-1 pint Plus azinphos-methyl 50W 1/2 lb./100 gallons for dilute spray	Do not apply more than 4 pints PENNCAP-M plus 1 pound azinphos-methyl 50W per acre per treatment. Do not apply within 7 days of harvest.

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

TANK MIX FOR USE ON COTTON
(All Cotton Growing Areas Except California)

Insects	Rates/Acre	Remarks
Armyworms Beet Weevil Bollworm Cabbage Looper Plant Bugs Tobacco Budworm Whiteflies	PENNCAP-M 1-3 pints Plus ORTHENE [®] ① Insecticide* 1/2-1 pound	Do not apply within 21 days of harvest.

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

*ORTHENE is a registered trademark of Chevron Chemical Company

TANK MIX FOR USE ON COTTON
(All Cotton Growing Areas Except California)

Insects	Rates/Acre	Remarks
Boll Weevil Bollworm Tobacco Budworm	PENNCAP-M 1-2 pints Plus AMBUSH [®] ① Insecticide* 1/2-1 pint	Low rates indicated should be used under low insect pressure or in a season long program under close scouting supervision Do not apply within 14 days of harvest

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

*AMBUSH is a registered trademark of ICI Americas, Inc.

TANK MIX FOR USE ON COTTON
(All Cotton Growing Areas Except California)

Insects	Rates/Acre	Remarks
Boll Weevil Bollworm Tobacco Budworm	PENNCAP-M 1-2 pints Plus PYDRIN [®] ① Insecticide* 1/2-1 pint	Low rates indicated should be used under low insect pressure or in season long program under close scouting supervision Do not apply within 14 days of harvest.

Observe all limitations, precautions, and rate recommendations which appear on the labels for these products.

*PYDRIN is a registered trademark of Shell Chemical Company

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. Sprayers should be cleaned daily. Do not allow PENNCAP-M to dry in or on application equipment before cleaning.

Crop	Insect	Rates	Remarks
	Beet Weevil	PENNCAP-M 1-2 pints Plus an equal amount of water 1-2 pints	Begin applications when damaging levels of beetle weevils appear. Repeat applications as necessary to maintain insect control. Add a material for Heliothis control to the tank mix when beetle weevils 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.

Wash thoroughly with soap and water after handling and before eating or smoking. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors and spray mist. Remove contaminated clothing and wash before reuse. Use in ventilated areas since accumulation of xylene vapors may be hazardous. Use with adequate ventilation. Avoid prolonged breathing of vapor.

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, lightness 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 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.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Snmp and other aquatic organisms may be killed at recommended application rates. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters. 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.

CHEMIGATION

NOT FOR THIS USE IN CALIFORNIA
GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, and low 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 dealers or other experts.

Person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a 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.

Injection system must meet the following requirements:
The system must contain a functional check valve, a check relief valve, and low pressure drain appropriately located on the injection pipeline to prevent 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 and 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 1/4 or 1/2 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.

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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