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



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 1, 2011

Carrie Tackema
Registration Manager
Cheminova, Inc.
One Park Drive, Suite 150
P.O. Box 110566
Research Triangle Park, NC 27709

Subject:

Submission of Alternate Name Cheminova Malathion 57%

EPA Reg. No. 67760-40

Notification Application Dated August 19, 2011

Dear Ms. Tackema:

The Agency has received your Application for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10, dated August 19, 2011, for the product Fyfanon 57EC, EPA Reg. No. 67760-40. The Registration Division (RD) has reviewed this request and finds that the actions requested fall within the scopes of PR Notice 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at (703) 308-8043.

Singerely,

Marianne Lewis

Insecticide-Rodenticide Branch Registration Division (7505P) Office of Pesticide Programs

EPA Environ	United States mental Protection Age Washington, DC 20460		Registrat Amendm Other	ion	OPP Identifier Number
SEARCH SECTION	Applicat	tion for Pestici	de - Section 1		
1. Company/Product Number 67760-40		2. EPA Product Venus Eagl			3. Proposed Classification
4. Company/Product (Name)		PM#			None Restricted
Fyfanon® 57EC		1			
5. Name and Address of Applicant (Include Cheminova, Inc. One Park Drive, Suite 1: P.O. Box 110566 Research Triangle Park. Check if this is a new address	50	or identical in co EPA Reg. N	eview. In accordan mposition and labe 0 ne	ling to:	tion 3(c)(3)(b)(I), my product is similar
		Section -	I		
Amendment - Explain below. Resubmission in response to Agence Notification - Explain below. Explanation: Use additional pa		Section Land Se	"Me Too" Applica Other - Explain b	ation	gency letter dated
Explanation. Osc additional pa	ge(s) if necessary. (For	section I and Se	ction ii.)		
Notifica	tion for Alternate B	Brand Name:	"Cheminox	a Malathio	n 57%"
This notification is consistent with the g 156.156. No other changes have been m U.S.C. Sec. 1001 to willfully make any f 156.140, 156.144, 156.146 and 156.156 of FIFRA. *Contact: Carrie M. Tack	nade to the labeling or the Confalse statement to EPA. I furthe, this product may be in violati	idential Statement of the understand that if on of FIFRA and I r	f Formulation for the information is may be subject to en	his product. I unde not consistent with aforcement action a	rstand that it is a violation of 18 the requirements of 40 CFR§§ 156.10,
		Section - I	П		
Material This Product Will Be Package	ged In:				
Child-Resistant Packaging	Unit Packaging	W	ater Soluble Packag	ging	Type of Container Metal
Yes* No	Yes No		Yes No		Metal Plastic
*Certification must be submitted	If "Yes"	No. per If	"Yes" ackage wgt.	No. per container	Glass Paper
			"Vicazili	o critical	Other (Specify)
3. Location of Net Contents Information Label Contain		Container		On Label	Label Directions ng accompanying product
6. Manner in Which Label is Affixed to	Des door				0 1 7 01
	Product Lithog Paper Stence	glued	Other		
	□ Paper	glued			
	☐ Paper ☐ Stenci	glued iled Section — I	V	to process this app	lication)
Contact Point (Complete items direction) Name	☐ Paper ☐ Stenci	glued iled Section $-\Gamma$	V	to process this app	lication) Telephone No. (Include Area Code)
Contact Point (Complete items direction)	Paper ⊠ Stence Stence Stence Ity below for identification of in	glued iled Section $-\Gamma$	V acted, if necessary,	to process this app	
Contact Point (Complete items direction) Name	Paper Stence By below for identification of in Certification on this form and all attachment tatement may be punishable by 3. The	glued ided Section — I dividual to be conta e Regulatory Affa on ts thereto are true, a y fine or imprisonme	vacted, if necessary, irs Manager ccurate and comple int or both under ap	ete. I acknowledge	Telephone No. (Include Area Code)



Cheminova, Inc. P.O. Box 110566 One Park Drive, Suite 150 Research Triangle Park, NC 27709 1-800-548-6113

Phone: 919-474-6600 Fax: 919-474-6629 Customer service:

Via Courier Delivery

August 19, 2011

Ms. Venus Eagle U.S. Environmental Protection Agency Insecticide-Rodenticide Branch Registration Division (7505P) One Potomac Yard (South Building) 2777 S. Crystal Drive Arlington, VA 22202

> RE: Fyfanon 57EC, EPA Reg. No. 67760-40 Notification per PRN 98-10

Dear Ms. Eagle:

Pursuant to PRN 98-10, Cheminova, Inc. hereby submits a Notification for Alternate Brand Name "Cheminova Malathion 57%" for the above-referenced product. Enclosed in support of this Notification are the following:

1. Application for Pesticide;

2. Five (7) copies of proposed product labeling WO 2

If you should have any questions, please feel free to contact me directly at (919) 474-6617 or by email at carrie.tackema@cheminova.com

Sincerely,

Regulatory Affairs Manager

SUB-LABEL A

NOTIFICATION SEP 0 1 2011

CHEMINOVA MALATHION 57%

Organophosphate

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 Malathion*.
 57.0%

 Inert Ingredients**
 43.0%

 TOTAL
 100.0%

*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate

** Contains Petroleum Distillate

(1 gallon contains 5.0 pounds of malathion)

Manufactured for:
CHEMINOVA INC.
One Park Drive, Suite 150
P.O. Box 110566
Research Triangle Park, NC 27709
919-474-6600
www.cheminova.us.com

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EPA Est. No.

١	IFT	CONT	FNTS:	

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)

IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

FIRST AID

This product is an organophosphate and a cholinesterase inhibitor.

IF SWALLOWED: Immediately call a poison control center or doctor.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give any liquid to the person.

Do not give anything by mouth to an unconscious person.

IF INHALED:

Move person to fresh air.

If person is not breathing, call 911 or ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR

CLOTHING

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing eye.

Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

NOTE TO PHYSICIAN: Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. Antidote: Administer atropine sulphate in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for, atropine, which is a symptomatic and often lifesaving antidote. DO NOT GIVE MORPHINE OR TRANQUILIZERS. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of malathion may occur and relapse may occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS. Contains Petroleum Distillate. May pose an aspiration pneumonia hazard.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin, eyes of clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, or vixón, If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

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For all formulations and use patterns – mixers, loaders, applicators, flaggers, and other handlers must wear:

- long sleeved shirt and long pants
- shoes and socks
- chemical resistant gloves (pilots must wear chemical resistant gloves only when entering or exiting the aircraft)

For all dip applications – mixers, loaders, and applicators must wear:

- long sleeved shirt and long pants
- shoes and socks
- chemical resistant gloves
- chemical resistant apron

For all air blast applications – applicators must wear:

- long sleeved shirt and long pants
- shoes and socks
- chemical resistant gloves (pilots must wear chemical resistant gloves only when entering or exiting the aircraft)
- chemical resistant apron

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

ENGINEERING CONTROL STATEMENTS

Pilots must use an enclosed cockpit in a manner that is consistent WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates.

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from

target area. Poorly draining soils and soils with shallow water tables are more prone to product runoff that contains this product.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Do not use or store near heat or open flame, including pilot lights.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

PESTICIDE STORAGE:

Cheminova Malathion 57% should be stored in the original unopened container in a secure, dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F).

Container Disposal:

Nonrefillable containers equal to or less than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store

rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable containers greater than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries 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), 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 restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop. 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
- Chemical Resistant gloves such as Barrier Laminate, or Butyl Rubber or Nitrile Rubber, or Viton
- · Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or nurseries. Do not enter or allow others to enter until sprays have dried.

PRECAUTIONS AND RESTRICTIONS

Do not permit spray to contact auto vehicles as paint finish could be permanently damaged. If vehicles come into contact with spray, wash immediately.

Do not use this product for any uses other that those specified on this label.

For proper mixing, fill the spray tank at least ¾ filled with water before Cheminova Malathion 57% is added. Mechanical agitation or recirculation through the pump bypass to the tank is usually sufficient for maintaining a good dispersion. Rinse empty container with water and drain into spray tank - repeat twice more. Repeat applications may be made as indicated. Consult your State Agricultural Experiment Station for proper timing of applications.

Spray Drift Requirements

Observe the following requirements when spraying in the vicinity of aquatic areas such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries and commercial fish ponds.

Buffer Zones for Aerial Application

When making a Non-ULV application with aerial application equipment, a minimum buffer zone of 25 feet must be maintained along any water body.

Droplet Size

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

For groundboom and aerial applications, use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles, or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Wind Direction and Speed

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

Temperature Inversion

Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 90% rotor diameter. Aerial applicators must consider flight speed and nozzle orientation in determining droplet size. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 4 to 10 mph.

Mist blowers with a pump capable of producing 40 psi and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles, 8001 to 8002, placed 30° into air blast, or rotary atomizers placed into the air blast that produce an efficient spray particle with a mass median diameter of 30 to 100 microns. Other similar application equipment which has demonstrated the capability to deliver even distribution of the labeled rate over the desired area may be used.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 12 psi are satisfactory. Use air pressure on chemical tanks and an accurate metering valve to assure a calibrated flow of the pesticide. Air should be regulated with a relief valve and gauge for proper air and liquid mixture. Pneumatic-type spray nozzles, as suggested by equipment manufacturer, should be used for spray particles with mass median diameter of 30 - 100 microns.

AGRICULTURAL USES

Make application to agricultural sites using a minimum of 30 (ground) or 5 (aerial) gallons of water/A unless otherwise noted in the table directly below.

Crop	Pests Controlled	Rate/Acre	Max. Single App. Rate (lb ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre- Harvest Interval (days)	Restricted Entry Interval (days)
Alfalfa	Alfalfa weevil larvae*; aphids; grasshoppers; lygus bugs; potato leaf	1.5-2 pints	1.25	2 per cutting	14	0	12 hrs

	hoppers; spider mites; spittlebugs; stink bugs; pea aphid						
	Armyworms Clover leaf weevil Vetch buchid	2 pints 1.5 pints 2 pints					
outsid	to blooming alfalfa only i de of hives.						
*Apply wh	en day temperature is ex	pected to be a	bove 65°F a	and when 50-7	0% of leaves	show dan	nage.
Apricots	Aphids; codling moth; European fruit lecanium; orange tortrix; soft brown scale; terrapin scale	2 pints	1.5	2	7	6	· 12 hrs
Asparagus	Asparagus aphid Asparagus beetle Thrips	2 pints 2 pints 1.5-2 pints	1.25	2	7	1	12 hrs
Avocado	Greenhouse thrips latnia scale; omnivorous looper; orange tortrix; soft brown scale	7.5 pints	4.7	2	30	7	2 days
Applic	ation rates are based on	a standard dil	ution rate of	500 (ground)	gallons of wa	ter/A.	A POT BALL
Barley	Cereal leaf beetle; English grain aphids; grasshoppers; greenbugs; winter	1-2 pints	1.25	2	7	7	12 hrs
Beets, garden	grain mites Aphids	1.5-2 pints	1.25	3	7	7	12 hrs
	t apply to Sugar Beets.			N. S. C.			721110
Blueberry (high bush and low bush)	Blueberry maggots; cherry fruit worm; cranberry fruit worm; Japanese beetle	2 pints	1.25	3	5	1	12 hrs
	tes for use on blueberries	s are based or	a standard	of 200 gallons	per acre dilu	ute spray.	
Broccoli; Chinese Broccoli; Broccoli Rabb	Aphids; cabbage looper; imported cabbageworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	2	2 days
Brussels sprouts	Aphids; cabbage looper; imported cabbage worm; carrot weevil; flea beetle	1-2 pints	1.25	2	7.	2	2 days
Cabbage; Chinese cabbage	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1-2 pints	1.25	6	7	7	2 days
• For ca	terpillars on summer and	fall plantings i	in the south,	begin when tr	ue leaves ap	pear. On	other
plantin Cantaloupe	gs and for other insects, Aphids; spider mites; cucumber beetles; leaf miners; leafhoppers; pickleworms; squash vine borer	apply when in	1.0	r. 2	7	1	12 hrs
Caneberries (blackberry; boysenberry; dewberry;	Aphids; rose scale chafers; Japanese beetle; leafhoppers; mites; thrips	3 pints	2.0	3	7	. 1	12 hrs

gooseberry; loganberry; raspberry)							
 Applie 	cation rates are based or	a standard di	lution rate	of 200 (ground) g	allons of wa	ater/A.	
Carrots	Aphids; leafhoppers	1.5-2 pints	1.25	2	7	7	24 hrs
Cucumber	Aphids; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	1.5-2.8 pints	1.75	2	7	1	24 hrs
Cauliflower	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	2	2 days
Celery	Aphids; spider mites	2.4 pints	1.5	2	7	7	24 hrs
Cherries (sweet and tart)	Black cherry aphid; fruit tree leafroller; Japanese beetle; cherry fruit fly; eyespotted bud moth	2.8 pints	1.75	4	3	3	12 hrs
 Application Injury 	cation rates are based on may occur on certain var	a standard dil	ution rate t cherries,	of 400 (ground) g particularly in the	allons of wa Northwest.	iter/A for i	mature trees.
Citmus Emuito	Theirs California and	All states of	ner than C	A:		The same of	
Citrus Fruits (grapefruit;	Thrips; California red scale; yellow scale;	4.5 pints	4.5	1	N/A		3 days
	purple scale; black	or	or			7	or
emon; lime; orange;	scale; soft scale;	1.5 pints	1.5	3	30		12 hrs
angerine;	citricola scale	CA only:				Marie 19	
angelo)	Citricola scale	7.5 pints or 1.5 pints	7.5 or 1.5	3	N/A 30	7	3 days or 12 hrs
 Apply acre b 	ne higher rate for heavy in with sufficient water to obly ground, and up to 500 opriate to ensure thorough Alfalfa weevil larvae;	otain full cover gallons of water	er per acre	for mature trees.	Use highe	r volumes	of water as
Clover	aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid Armyworms Clover leaf weevil Vetch buchid	2 pints 1.5 pints 2 pints	1.25	2 per cutting	14	0	12 hrs
Do not	t apply to clover in bloom	- 4 5					1
Collards	Aphids; harlequin cabbage bug; smaller cabbage looper; leaf hoppers; leaf miners	1.5 pints	1.0	3	7	7	12 hrs
Corn (field)	Aphids; corn éarworms; corn rootworm adults; young grasshoppers;	1.5 pints	1.0	2	7	7	3 days for detassling; 12 hrs for all other activities
Corn (sweet and pop)	sap beetle; thrips; smaller armyworms; leaf hopper			2	5	5	3 days for detassling; 12 hrs for all other

			100/				activities
	orn earworm and sap bed may occur in the whorl s		en 10% of	the ears show si	lk.		
Chayote fruit	Aphids; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	1.5-2.8 pints	1.75	2	7	1	24 hrs
Chayote root	Aphids; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	1.5-2.5 pints	1.56	2	7	1	24 hrs
Chestnut	. Mites	1.5-4 pints		3	7	2	24 hrs
	when mites appear in nu of treat after shucks split.	mbers and re	peat in 7-1	0 days.			
Cotton	Brown cotton leafworm; cotton aphid; cotton leafworm; cotton leaf perforator; desert spider mite; leafhoppers; lygus bugs; thrips; whiteflies; fall armyworms; garden webworms; grasshoppers Boll weevil Cotton fleahoppers Lygus bugs; thrips	2-4 pints 1-1.5 pints 4 pints	2.5	3	7	7	2 days
	igher rates for larger inse Rose chafer mites		1.25	3	7	1	12 hrs
Currant Applic	ation rates are based on	2 pints					121115
Dandelion	Aphids	1.5-2 pints	1.25	2	7	7	24 hrs
Eggplant	Aphids; spider mites	1.6-2.5 pints	1.56	4	5	3	12 hrs
Endive (escarole)	Aphids; spider mites	1.5-2 pints	1.25	2	7	7	24 hrs
-igs	Dried fruit beetle; vinegar flies	3 pints + 1-2 gal. sulfured molasses	2.0	2	5	5	24 hrs
Garlic	Aphids; thrips	1.5-2.5 pints	1.56	3	7	3	24 hrs
Grains, stored (barley, corn, pats, rye, wheat)	Cereal leaf beetle; confused flour beetle; flat grain beetle; granary weevil; Indian meal moth; lesser grain borer; maize weevil; red flour beetle; rice weevil; rusty grain beetle; saw-toothed grain beetle	Mix 8 pints/25 gallons of water. Apply 3 gallons per 1000/ft	0.6 lb ai/1000 ft	1 per storage period	N/A	N/A	12 hrs

- Do not apply directly to grain.
- Before applying spray, clean thoroughly.
- Remove and burn all sweeping and debris.

For a residual wall, floor and machinery spray in grain elevators and silos, before loading grain, make a thorough application.

	9 - FF					,	
Grapes (raisin, table, wine)	Leafhoppers; spidermites; European fruit lecanium*; Drosophilia; Japanese beetle; terrapin scale	3 pints	1.88	2	14	3	3 days for girdling and tying
	Mealybugs	1 ½ pints					all other activities
Grape Vines (overwintering on nursery stock only)	Grape phylloxera	3 pints per 100 gallon					,

- Application rates are based on a standard dilution rate of 200 (ground) gallons of water/A.
- Injury may occur on grapes of Almeria, Cardinal, Italia and Ribier varieties when sprays containing Cheminova Malathion 57% are applied after clusters appear.
- Remove excess soil from roots and submerge entire root system in the Fyfanon solution for 5 minutes.

* Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom. Grass, forage, hay (Bermuda, barnyard grass, canary grass, fescue, orchardgrass, red top, timothy, yellow foxtail) Guava Drosophila 1.5-2 pints 1.25 13 3 0 12 12 hrs Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate. Hops Aphids; spider mites 1 pint 0.63 3 7 10 12 hrs Aphids; diamondback moth; flea beetles; leafhoppers Aphids; cabbage looper; imported cabbageworm; diamondback moth	Agitate	solution at all times.			•			
forage, hay (Bermuda, barnyard grass, canary grass, fescue, orchardgrass, red top, timothy, yellow foxtail) Guava Drosophila 1.5-2 pints 1.25 13 3 2 12 hrs Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate. Hops Aphids; spider mites 1 pint 0.63 3 7 10 12 hrs Aphids; diamondback moth; flea beetles; leafhoppers Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; 1.5 pints 1.25 2 7 7 24 hrs Aphids; cabbage looper; imported cabbageworm; 1.2 pints 1.25 2 7 7 7 24 hrs		rage applications when	newly hatched	d nymphs a	re migrating over	vines, usu	ally shortly	after bloom.
Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate. Hops Aphids; spider mites 1 pint 0.63 3 7 10 12 hrs Aphids; diamondback moth; flea beetles; 1.5-2 pints 1.25 3 7 7 24 hrs leafhoppers Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; 1.2 pints 1.2 p	forage, hay (Bermuda, barnyard grass, canary grass, fescue, orchardgrass, red top, timothy,	aphids; leafhoppers; grasshoppers						
Hops Aphids; spider mites 1 pint 0.63 3 7 10 12 hrs Aphids; diamondback moth; flea beetles; leafhoppers Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; 1.2 pints 1.2 pi							2	12 hrs
Horseradish Aphids; diamondback moth; flea beetles; leafhoppers	 Apply v 				matic yeast hydi	olyzate.		
Horseradish moth; flea beetles; leafhoppers 1.5-2 pints 1.25 3 7 7 24 hrs Aphids; cabbage looper; imported cabbageworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; 1.2 pints 1.	Hops		1 pint	0.63	3	7	10	12 hrs
Kale looper; imported cabbageworm; 1.5 pints 1.0 3 5 7 12 hrs webworm; diamondback moth Aphids; cabbage looper; imported cabbageworm; 1.2 pints 1.25 2 7 7 24 hrs	Horseradish	moth; flea beetles;	1.5-2 pints	1.25	3	7	7	24 hrs
looper; imported cabbageworm; 1-2 pints 1.25 2 7 7 24 hrs	Kale	looper; imported cabbageworm; webworm;	1.5 pints	1.0	3	5	7	12 hrs
webworm; carrot weevil; flea beetle	Kohlrabi	looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	·	1.25	2	7	7	24 hrs
LeekAphids Onion maggot flies1.5-2.5 pints1.5627324 hrs	Leek	Onion maggot flies		1.56	2	7	3	24 hrs
Alfalfa caterpillars*; Alfalfa weevil larvae**; Grasshoppers; aphids; leafhoppers; lygus bugs Alfalfa caterpillars*; Alfalfa weevil larvae**; 2 pints 1.25 2 per cutting 14 0 12 hrs	Lespedeza	Alfalfa caterpillars*; Alfalfa weevil larvae**; Grasshoppers; aphids; leafhoppers;	2 pints	1.25	2 per cutting	14	0	12 hrs
Do not apply to alfalfa in bloom.	Do not	apply to alfalfa in bloom	•					

Lettuce	day temperature is expect Aphids; leafhoppers;	3 pints		2			
(head)		3 pints	1.88	2	6	14	24 hrs
Lettuce (leaf)	spider mites; cabbage lopper	2.5-3 pints		2	5	14	241113
Macadamia nut	Green stink bugs	1.5 pints	0.94	6	7	1	12 hrs
No mo trees.	ore than 5.6 lbs. of actua	I Cheminova M	lalathion 57%	% per acre sho	ould be appli	ed to maca	damia nut
Mango	Drosophila;	1.5 pints	0.94	10	7	1	12 hrs
 Apply 	with 1 lb. partially hydrol	yzed yeast pro	tein or enzyr	natic yeast hy	drolyzate.		
Melons (other than watermelon)	Aphids; spider mites; cucumber beetles; leaf miners; leafhoppers; pickleworms; squash vine borer	1.6 pints	1.0	2	7	1	12 hrs
Mint	Aphids; flea beetles; leafhoppers; spider mites; caterpillars	1.5 pints	0.94	3	7	7	12 hrs
Mustards (mustard greens; mustard spinach; Chinese mustard mizuna)	Aphids; cabbage looper; imported cabbageworm; webworm; diamondback moth	1.5 pints	1.0	3	5	7	12 hrs
Nectarines	Spider mites; plum curculio Aphids*; Japanese	1-2 pints	3.0	3	7	. 7	24 hrs
	nova Malathion 57% ma d with spray oil for dorma Cereal leaf beetle;				llow spray oi	l manufact	ırer's
Oats	English grain aphids; young grasshoppers; greenbugs	1.5 pints	1.0	2	7	7	12 hrs
Okra	Aphids Japanese beetle	1.5 pints 1.9 pints	1.2	5	7	1	12 hrs
Onion (bulb	Onion maggots	1.5-2.5 pints	1.56	2	7	3	
	0 1 11 1	4 5 0	L 9 (1) (1)	2			12 hrs
and green)	Onion thrips	1.5-2 pints	1 25			1	
and green) Papaya	Aphids; mealybugs Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot	1.5-2 pints 1.5-2 pints 1.5-2.4 pints	1.25	8	3	7	12 hrs 12 hrs 24 hrs
Papaya Parsley Parsnip	Aphids; mealybugs Aphids; cabbage looper; imported cabbageworm; diamondback moth;	1.5-2 pints 1.5-2.4		8	3		12 hrs

Black cherry aphid; European red mite; European red mite; European red mite; Green peach aphid; rusty plum aphid; Japanese beetle; spider mite 3.0 3 11 7 24 hrs	vlaaA •	with 1 lb 'nartially hydrol	vzed veast or	ntein or enz	vmatic yeast hyd	roluzate		
black peach aphid;	у укрыу	Black cherry aphid	yzod ycast pr	July of GIZ	ymatic yeast riyu	loiyzate.	Τ	1
European red mite; green peach aphid; rusty plum aphid; Japaness beetle; spider mite	(ļ	Į.	
green peach aphid; Japanese beetle; spider mite Spider								1
Peaches Pea			2.4 pints					
Peaches Peaches Spider mite Spider m							}	
Peaches Spider mile 3.0 3 11 7 24 hrs						1		
Oriental fruit moth; plum curculio; cottony peach scale; European fruit lecanium; terrapin scale • Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. • Do not apply more than 9 pounds of actual Cheminova Maiathion 57% per acre to peach trees. Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculo; red-banded leafroller • Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Peas (dried, green) Peas (dried, Pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs present plum curculor rates are based on a standard dilution rate of 500 (ground) gallons of water/A. Peas (dried, green) Pecan bud moth; aphids; pecan leaf casebearer'; spider mites; mites; pecan phyllovera' pints 2.5 2 7 7 7 24 hrs pecan phyllovera' pints 2.5 2 7 7 7 24 hrs pecan phyllovera' pints 2.5 pints 2.5 2 7 7 7 24 hrs pecan phyllovera' pints 2.5 pints 2.5 pints 2.5 pecan phyllovera' per pecan nut casebearer' spider mites; mites; pecan leaf casebearer' spider pecan nut pecan phyllovera' pints 2.5 pints 2.				1		1	1	
Oriental fruit moth; plum curculio; cottory peach scale; European fruit lecanium; terrapin scale • Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. • Do not apply more than 9 pounds of actual Cheminova Malathion 57% per acre to peach trees. Aphids Aphids I pint Mealybugs; mites; pear psylla Codling moth; fruitfree leafroller, plum curculio; red-banded leafroller plum curculio; red-banded leafroller plum curculio; red-banded leafroller plum curculio; red-banded leafroller injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, green) Peas defield, pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer', spider miles; miles; miles; miles; pecan leaf casebearer', spider miles; miles; pecan leaf casebearer', spider miles; miles; pecan leaf casebearer', spider miles; miles; miles; pecan leaf casebearer', spider miles; miles; pecan phylloxers; pecan phyllox	Peaches	spider mile		3.0	3	11	7	24 hrs
plum curculio; cottony peach scale; European fruit lecanium; terrapin scale; - Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. - Do not apply more than 9 pounds of actual Cheminova Matathion 57% per acre to peach trees. Pears - Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. - Pound pear pounds of actual Cheminova Matathion 57% per acre to peach trees. Pears - Codling moth; fruittree leafroller; plum curculio; red-banded leafroller - Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. - Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried. Pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer; pints pecan phyllowerar pecan nut assebearer; pints pecan nut assebearer; pints pecan nut assebearer; walnut husk fly. - Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. - Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. - Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. - Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. - Poppers Popper magglos 2.5 pints 1.56 2 5 3 12 hrs - Popper Mealybugs 3.2 pints 2.0 3 7 7 24 hrs - Popper Mealybugs 3.2 pints 2.0 3 7 7 12 hrs - False chinch bug 1.5 pints 1.0 2 7 1 12 hrs - Rock Rice grasshoppers; leaftneppers 1.5 pints 1.0 3 7 7 12 hrs - Rock Rice Rice stink bug; rice 2 pints 1.25 2 7 7 12 hrs - Rock Grass Aphids 1.5 pints 1.0 3 7 7 12 hrs - Rock Grass Aphids 1.5 pints 1.0 3 7 7 12 hrs - Popper Popper Popper miles stink bug; rice 2 pints 1.25 2 7 7 12 hrs - Popper Rock Rice stink bug; rice 2 pints 1.25 2 7 7 12 hrs - Popper Rock Rice stink bug; rice 2 pints 1.25 2 7		Oni a satul family as attack]
peach scale; European fruit lecanium; terrapin scale Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Do not apply more than 9 pounds of actual Cheminova Malathion 57% per acre to peach trees. Aphids 1 pint							1	
European fruit lecanium; terrapin scale Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Do not apply more than 9 pounds of actual Cheminova Malathion 57% per acre to peach trees. Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curcullo; red-banded leafroller Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, Pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer; spider mites; mites; plus casebearer; plus casebearer; plus pints pecan nut casebearer; pints pecan nut casebearer; pints pecan nut casebearer; walnut husk fly? Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Pepper Mealybugs 3.2 pints 1.56 2 5 3 12 hrs Peneary Malathius; grasshoppers; leafnoppers (2.5 pints 2.0 3 7 7 24 hrs Potatoes False chinch bug 1.5 pints 1.0 2 7 1 12 hrs Malybugs 3.2 pints 2.0 3 7 7 24 hrs Pumpkins Aphids 1.5 pints 1.0 2 7 1 12 hrs Malybugs 3.2 pints 2.0 3 7 7 12 hrs Malybugs 3.1.5 pints 1.0 2 7 1 12 hrs Malybugs 3.2 pints 2.0 3 7 7 12 hrs Malybugs 3.1.5 pints 1.0 3 7 7 12 hrs Malybugs 3.1.5 pints 1.0 3 7 7 12 hrs Malybugs 3.1.5 pints 1.0 3 7 7 12 hrs Rice (wild) 1.5 pints 1.0 3 7 7 12 hrs Rice (wild) 1.5 pints 1.0 3 7 7 12 hrs Treat for leafminers shortly after first rice blades appear on surface of the water. For leafminers, apply when the eggs aral larvae are abundant on thre seedling rice. Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.						Ì]	
Pears			4.8 pints					
Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Do not apply more than 9 pounds of actual Cheminova Malathion 57% per acre to peach trees. Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; red-banded leafroller Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Injury may occur under certain conditions in the Northeast on Bose pears. Peas (dried, Pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer, spider mites; mites; plecan phylloxera¹ pints Pecan nutrees of 300 (ground) gallons of water/A for mature trees 25-35 feet high. Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids; peraration eggs begin to hatch. Peppers Peper maggots 1-2.5 pints 2.0 3 7 7 24 hrs Peppers Penaggots 2.5 pints 2.5 pints 2.0 3 7 7 24 hrs Peppers Relationships 3.2 pints 2.0 3 7 7 24 hrs Peppers Relationships 3.2 pints 2.0 3 7 7 24 hrs Peppers Politics 3.2 pints 4.3 pints 4.4 pints 4.5]				}	
Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Aphids Aphids Mealybugs; mites; pear psylla Codling moth; fruitiree leafroller; plum curcullo; red-banded leafroller Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, green) Peach but moth; aphids; pean leaf casebearer'; spider mites; mites; pean phylloxera': pints Pecan but moth; aphids; pean leaf casebearer'; spider mites; mites; pean phylloxera': pints Pecan phylloxera								
Do not apply more than 9 pounds of actual Cheminova Malathion 57% per acre to peach trees. Aphids 1 pint Mealybugs; mites; pear psylla 1.25 2 7 1 12 hrs pear psylla 1.25 2 7 1 12 hrs Codling moth; fruittree leafroller: plum curculio; red-banded leafroller and deleafroller Peas (dried, plum curculio; red-banded leafroller Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs green) Pecan bud moth; aphids; pecan leaf casebearer; spider mites; mites; pecan phylloxera! pints 2.5 2 7 7 7 24 hrs pecan nut casebearer; spider mites; mites; pecan leaf casebearer; spider mites; mites; pecan leaf casebearer; spider mites; mites; pecan phylloxera! pints 2.5 2 7 7 7 24 hrs pecan nut casebearer; spider mites; mites; pecan phylloxera! pints 2.5 5 2 7 7 7 24 hrs pecan nut casebearer; spider mites; mites; pecan phylloxera! pints 2.5 5 5 3 12 hrs pints 1.5 pints 1.5 pints 1.5 pints 2.0 3 7 7 24 hrs Pepper Mealybugs 3.2 pints 2.0 3 7 7 24 hrs Pepper maggots 2.5 pints Pepper maggots 2.5 pints 2.0 3 7 7 24 hrs Pepper maggots 2.5 pints 1.5 pints 2.0 3 7 7 24 hrs Penper Mealybugs 2.2.5 pints 2.0 3 7 7 1 21 hrs Penpers Palvids; grasshoppers; leafhoppers 1.5 pints 1.0 2 7 1 12 hrs Penpers Palvids 1.5 pints 1.0 2 7 1 12 hrs Penpers Palvids 1.5 pints 1.0 3 7 7 12 hrs Redish Aphids 1.5 pints 1.0 3 7 7 12 hrs Rice Rice wild) Aphids 1.5 pints 1.0 3 7 7 12 hrs Rice Rice wild) and price and pric		·	1	1		l		<u> </u>
Pears Pears Coding moth; fruittree leafroller; plum curcuilo; red-boarded leafroller; plum curcuilo; red-boarded leafroller; plum curcuilo; red-boarded leafroller								
Pears Mealybugs; mites; pear psylla 1-2 pints 1.25 2 7 1 12 hrs	Do no			Cheminova N	Malathion 57% pe	er acre to pe	each trees.	
Pears Pear psylia Codling moth; fruittree leafroller; plum curroulio; red-banded leafroller Peas (dried, plum curroulio; red-banded leafroller Peas (dried, press) Pea		Aphids	1 pint					
Pears Pear psylia Codling moth; fruittree leafroller; plum curroulio; red-banded leafroller Peas (dried, plum curroulio; red-banded leafroller Peas (dried, press) Pea]				
Pears Codling moth; fruittree leafroller; plum curculic; red-banded leafroller plum curculic; red-banded leafroller plum curculic; red-banded leafroller			1-2 pints	1				
Codling moth; fruittree leafroller; plum curculio; red-banded leafroller • Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. • Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, green) Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer'; spider mites; mites; plus pecan leaf casebearer'; spider mites; mites; pints Pecan nut casebearer'; pints • Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids Pepper maggots 1.5 pints 2.5 pints Peneapple Mealybugs 3.2 pints 2.5 pints Aphids; grasshoppers; leafnoppers Potatoes False chinch bug 1.5 pints Mealybugs 2-2.5 pints Aphids 1.5 pints 1.5 pints 1.5 pints Aphids Aphids 1.5 pints Aphids Aphids 1.5 pints Aphids Aphids Aphids 1.5 pints Aphids Aphids 1.5 pints Aphids Aphids 1.5 pints Aphids Ap		pear psylla]				
fruittree leaffoller; plum curculio; red-banded leafroller • Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Peas (dried, green) Pea weevils; aphids green) Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; 1.5-2 pecan phylloxera ¹ pints Pecan surface are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids 1-2.5 pints Pepper maggots 2.5 pints Penpers Aphids; 2 pints grasshoppers; leafnoppers Potatoes False chinch bug 1.5 pints 1.0 2 7 0 12 hrs False chinch bug 1.5 pints 1.0 2 7 1 1 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Rutabagas Aphids 1.5 pints 1.0 3 7 7 12 hrs Rutabagas Aphids 1.5 pints 1.0 3 7 7 12 hrs Rice (wild) leaf miner • Treat for leafminers shortly after first rice blades appear on surface of the water. • For leafminers, apply when the eggs and larvae are abundant on the seedling rice. • Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.	Pears			1.25	2	7	1	12 hrs
plum curculic; red- banded leafroller Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Peas (dried, green) Peas weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; 1.5-2 pecan pulloxera ¹ pecan nut casebearer ² ; Walnut husk fly ² Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-36 feet high. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids 1-2.5 pints 1.56 2 5 3 12 hrs Pineapple Mealybugs 3.2 pints 2.0 3 7 7 24 hrs Aphids; 2 pints grasshoppers; leafnoppers Potatoes False chinch bug 1.5 pints 1.0 2 7 0 12 hrs Radish Aphids 1.5 pints 1.0 2 7 1 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Rice Rice Rice stink bug; rice 2 pints 1.25 2 7 7 12 hrs For leafminers shortly after first rice blades appear on surface of the water. For leafminers, apply when the eggs and larvae are abundant on the seedling rice. Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.	,	Codling moth;	2 pints] !				
Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, green) Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ Pecan nut casebearer ² ; walnut husk fly ² Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids 1-2.5 pints 2.5 pints 2.5 pints 2.5 pints 2.5 pints 3.2 pints 3.2 pints 3.2 pints 3.2 pints 3.5 pints 4.5 pints 4.5 pints 4.5 pints 5.5 pints 5.5 pints 5.5 pints 6.5 pint	ļ							
Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. Injury may occur under certain conditions in the Northeast on Bosc pears. Peas (dried, pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; pecan phylloxera ¹ pints per pecan nut casebearer ² ; walnut husk fly ² Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Apply when first generation eggs begin to hatch. Peppers Aphids 1-2.5 pints 1.56 2 5 3 12 hrs Pepper maggots 2.5 pints Pepper maggots 2.5 pints 2.0 3 7 7 24 hrs Pepper maggots 2.5 pints 2.0 3 7 7 24 hrs Penpers Aphids; passhoppers; leafhoppers Potatoes Potatoes False chinch bug 1.5 pints 1.0 2 7 0 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Tare for leafminers shortly after first rice blades appear on surface of the water. • Treat for leafminers shortly after first rice blades appear on surface of the water. • For leafminers, apply when the eggs and larvae are abundant on the seedling rice. • Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.		plum curculio; red-]	ì	ì)	
Peas (dried, green) Pea weevils; aphids 1.5 pints 1.0 2 7 3 12 hrs Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; pecan phylloxera 1: pints Pecan nut casebearer ² ; Walnut husk fly ² : Pend Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high. Apply when buds begin to develop. Aphids 1-2.5 pints 1.56 2 5 3 12 hrs Penpers Aphids 1-2.5 pints 2.0 3 7 7 24 hrs Penpers Aphids; perperation eggs begin to hatch. Peppers Aphids 1-2.5 pints 2.0 3 7 7 24 hrs Pineapple Mealybugs 3.2 pints 2.0 3 7 7 24 hrs Aphids; grasshoppers; leafnoppers leafnoppers Potatoes 1.5 pints 1.56 2 7 0 12 hrs False chinch bug 1.5 pints 1.0 2 7 1 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Radish Aphids 1.5 pints 1.0 3 7 7 12 hrs Rice Rice stink bug; rice 2 pints 1.25 2 7 7 12 hrs Rice Rice stink bug; rice 2 pints 1.25 2 7 7 12 hrs Preaf for leafminers shortly after first rice blades appear on surface of the water. For leafminers shortly after first rice blades appear on surface of the water. For leafminers shortly after first rice blades appear on surface of the water. For leafminers apply when the eggs and larvae are abundant on the seedling rice. Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.		banded leafroller						•
Peas (dried, green)	Application	ation rates are based on	a standard di	lution rate o	f 300 (ground) ga	illons of wa	ter/A.	
Pecans Pecans Pecan	 Injury r 	may occur under certain	conditions in	the Northea	st on Bosc pears	•		
Pecan bud moth; aphids; pecan leaf casebearer, spider mites; mites; mites; per miter per mites; per miter per miter; per	Peas (dried,	Dog woovile: applied	1 5 ninte	10	2	7	2	40 6
Aphilds; pecan leaf casebearer ² ; spider mites; mi	green)	rea weeviis, apriius	1.5 pints	1.0		/	3	12 nrs
Casebearer ² ; spider mites;							T	
Pecans mites; mites; pecan phylloxera¹ pints		aphids; pecan leaf						
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Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.								
							er/A.	ļ
 Do not apply Propanil within 15 days of malathion treatment. 						or man	**** **	•
- Do not apply 1 repain than 10 days of morabien adaptions	- 50 1101	apply i Topathi within 10	Layo or inuial	o a outin				

NOTE FOR A	QUATIC USES (rice): Br bodies of water where fish	oadcast use c	only over in	itermittently flood	led areas. A	pplication	may not be
aco around	Cereal leaf beetle	1-1.5 pints	growit e	and/or naivested.	·		
Rye	English grain aphids; young grasshoppers;	1.5 pints	1.0	3	7	7	12 hrs
	greenbugs	,,,,		•			
	Aphids; imported						
′	cabbage worm;						
Salsify	cabbage looper;	1-2 pints	1.25	3	7	7	24 hrs
,	carrot weevil; flea					'	
	beetles; leafhoppers; spider mites; thrips						
Shallot	Aphids; thrips;	2.5 pints	1.56	2	7	3	24 hrs
Sorghum	Greenbugs	1.5 pints	1.0	2	7	7	12 hrs
Spinach	Aphids	1.5 pints	1.0	2	 7	7	12 hrs
<u> Opinaon</u>	Aphids; cucumber				 	 <i>'</i>	121110
	beetle; leaf miners;	2.8 pints		}	1	}	
	pickleworms; spider	·					
Squash,	mites; cut worms;		1.75	3	7	1	24 hrs
summer	darkling ground		1.70		'	'	241118
	beetle; leafhoppers;						}
	squash vine borer;						
Squash,	thrips			ļ		}	
winter	Aphids	1.5 pints	1.0	3	7	1	12 hrs
	Aphids; spider mites;				 		<u> </u>
	Field crickets; lygus						
	bugs; spittle bugs;						
	thrips; potato	1.5-3.2	2.2		_	_	10.1
Strawberry	leafhopper;	pints	2.0	4	7	3	12 hrs
	strawberry leafroller; strawberry root						
	weevil; white flies;						
	thrips				1		
0	Leafhoppers;	1.5-2.5					
Sweet	Morningglory leaf	pints	1.56	2	7	0	12 hrs
Potatoes	miner						
Swiss chard	Aphids	1.5 pints	1.0	2	7	14	12 hrs
Tomatoes,	Aphids; spider mites	1.5 pints	1.56	4	5	1	12 hrs
Tomatillos	Drosophila t apply within 1 day of har	2.5 pints			l		L
	a full coverage application		oliage				
<u> </u>	Alfalfa weevil larvae;	1-2 pints	onago.				T
	aphids;				1		
	grasshoppers; lygus				i]
	bugs; potato leaf						1
•	hoppers; spider						
Trefoil	mites; spittlebugs;		4.05	0	1	•	40.5
(birdsfoot)	stink bugs; pea aphid		1.25	2 per cutting	14	0	12 hrs
` '	Armyworms	2 pints			1		}
	Annywomis	z pinto					
	Clover leaf weevil	1.5 pints			'		
		.					
	Vetch bruchid	2 pints			E dout		
	Anhide: cahhaga	}			5 days for		
	Aphids; cabbage loopers; imported			_	turnip	á.	
Turnips	cabbageworm; carrot	1-2 pints	1.25	3	greens	1	12 hrs
	weevil	}			3. = 0.10		,
					7 days]

					for turnip root		
Vetch	Alfalfa weevil larvae; aphids; armyworms; clover leaf weevil; grasshoppers; lygus bugs; pea aphid; potato leafhoppers; spider mites; spittlebugs; vetch bruchid; omnivorous leaf tier; pea aphid; vetch bruchid	1-2 pints	1.25	2 per cutting	14	0	12 hrs
Walnuts	Aphids; European red mites; walnut aphid; walnut husk fly	4 pints	2.5	3	7	7	24 hrs
Applic water/	ations may be made usir A).	ng convention	al ground s	orayer or air-carri	er type spra	yer (500 ga	llons of
Watercress	Aphids	1.6-2 pints	1.25 or 1.0	5	3	3	24 hrs or 12 hrs
Watermelons	Aphids	1.5 pints	1.0	2	7	1	12 hrs
Wheat (Spring and Winter)	Cereal leaf beetle English grain aphids; young grasshoppers; greenbugs	1-1.5 pints 1.5 pints	1.0	2	7	7	12 hrs
Yams	Leafhoppers	1.5-2.5 pints	1.56	2	7	0	24 hrs

NON-AGRICULTURAL USE SITES

Site	FL. OZ./Acre	Max. Single App. Rate	Use Pattern Limitations	Restricted Entry Interval (days)
Christmas tree plantations	82	3.2 lb ai/A	Maximum of 2 applications per year	12 hrs
Fence rows/hedge rows	6	0.2439 lb ai/1000 ft ²		
Ornamental and/or shade trees	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year; 10 day minimum re- treatment interval	12 hrs
Ornamental herbaceous plants	64	2.5 lbs ai/100 gal		12 hrs
Ornamental non-flowering plants	64	2.5 lbs ai/100 gal		
Ornamental woody shrubs and vines	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year/growing cycle; 10 day minimum re- treatment interval	12 hrs
Pine seed orchards	82	3.2 lbs ai/A	Maximum of 2 applications per year/growing season; 7 day minimum re- treatment interval	12 hrs

FLY CONTROL

Fly control: For use on the lower outside foundation of the home and fence/hedge rows.

PEST CONTROLLED	RATE	DIRECTIONS FOR USE
Adult flies	Straight sprays: 5 tablespoons+1 gallon water or 1 cup + 2 ½ gallon water or 1 quart + 12 gallon water	Apply as a spray at the rate of 1 gallon per 1,000 sq. ft. on painted surfaces and 2 gallons per 1,000 sq. ft. on unpainted surfaces where flies alight or congregate
Adult flies Fly maggots	Bait sprays: 5 tablespoons+7 tablespoons sugar or molasses (unsulfurized) or corn syrup+2 ½ gallon water or 1 cup+1 cup sugar or molasses (unsulfurized) or corn syrup+2 ½ gallon water or 1 quart + 2 ½ lbs. sugar or 1 quart molasses (unsulfurized) or 1 quart corn syrup+12 gallons water	Apply as a bait spray. Do not apply to freshly whitewashed surfaces. Wait 14 days after whitewashing before applying.

Repeat applications as necessary. Avoid applying oil-based formulations to valuable ornamental plants as injury may occur.

WARRANTY DISCLAIMER

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Cheminova's election, one of the following:

(1) Refund of purchase price paid by buyer or user for product bought, or

(2) Replacement of amount of product used.

To the extent consistent with applicable law, Cheminova shall not be liable for consequential, incidental, or special damages or losses in any matter.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

8-19-11 1/H19/1

SUB-LABEL B

Cheminova Malathion 57% Mosquito

FOR USE ONLY BY FEDERAL, STATE, TRIBAL, OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH OR VECTOR CONTROL, OR BY PERSONS CERTIFIED IN THE APPROPRIATE CATEGORY OR OTHERWISE AUTHORIZED BY THE STATE OR TRIBAL LEAD PESTICIDE REGULATORY AGENCY TO PERFORM ADULT MOSQUITO CONTROL APPLICATIONS, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION.

*MalathionINGREDIENTS:	57.0 %
TOTAL:	43.0 %
* O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate. **Contains Petroleum Distillate (1 gallon contains 5.0 pounds of malathion)	
	i

EPA Est. No.

Cheminova, Inc.
One Park Drive, Suite 150
P.O. Box 110566
Research Triangle Park, NC 27709
Product of Denmark
® Fyfanon is a registered trademark of Cheminova

EPA Reg. No. 67760-40

NET CONTENTS: __

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)

IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

FIRST AID

This product is an organophosphate and a cholinesterase inhibitor.

IF SWALLOWED: Immediately call a poison control center or doctor.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give any liquid to the person.

Do not give anything by mouth to an unconscious person.

IF INHALED:

Move person to fresh air.

If person is not breathing, call 911 or ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR **CLOTHING**

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing eye.

Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

NOTE TO PHYSICIAN: Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. Antidote: Administer atropine sulphate in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for, atropine, which is a symptomatic and often lifesaving antidote. DO NOT GIVE MORPHINE OR TRANQUILIZERS. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of malathion may occur and relapse may occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS. Contains Petroleum Distillate. May pose an aspiration pneumonia hazard.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Some materials that are chemical-resistant to this product arebarrier laminate, butyl rubber, nitrile rubber, or viton. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

For all formulations and use patterns - mixers, loaders, applicators, flaggers, and other handlers must wear:

- long sleeved shirt and long pants
- shoes and socks

 chemical resistant gloves (pilots must wear chemical resistant gloves only when entering or exiting the aircraft)

For all air blast applications – applicators must wear:

- long sleeved shirt and long pants
- shoes and socks
- chemical resistant gloves (pilots must wear chemical resistant gloves only when entering or exiting the aircraft)
- chemical resistant apron

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

ENGINEERING CONTROL STATEMENTS

Pilots must use an enclosed cockpit in a manner that is consistent WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms, including fish and invertebrates. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency charged with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply or allow it to drift onto blooming crops or weeds while bees are actively visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local public health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort. When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge

Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

PESTICIDE STORAGE:

Cheminova Malathion 57% Mosquito should be stored in the original unopened container in a secure, dry place. Do not contaminate with other pesticides or fertilizers. Cheminova Malathion 57% Mosquito should never be heated above 55° C (131° F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F).

CONTAINER DISPOSAL:

Refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers equal to or less than 5 gallons: Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable containers greater than 5 gallons: Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

PRECAUTIONS AND RESTRICTONS

Only treat when mosquitoes are swarming or biting. Do not re-treat a site more than 3 times in any one week when mosquitoes are swarming or biting. However, more frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

RESTRICTIONS

- Apply when wind speed is greater than or equal to 1 mph.
- Do not apply more than 0.23 lb active ingredient/A/day.
- Do not apply by fixed wing aircraft at height less than 100 feet, or by helicopter at a height less than 75 feet unless specifically approved by the state or tribe based on public health needs.

PRECAUTIONS

- Before using, read the directions contained in this labeling for the proper methods and procedures which must be followed to achieve effective insect control and avoid permanent damage to automobile and other paint finishes.
- IMPORTANT: IN AREAS WHERE AUTOMOBILES, TRAILERS, TRUCKS AND PLEASURE BOATS ARE PRESENT, undiluted spray droplets of Cheminova Malathion 57% Mosquito will permanently damage vehicle paint finishes unless the aircraft used for the ultra low volume application meets all of the specifications listed under AERIAL APPLICATION.

AERIAL APPLICATION

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 100 microns (Dv 0.9 < 100 um). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle, nozzle flow rate(s) and droplet diameters are properly calibrated.

GROUND BASED APPLICATION

Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.3 < 30 um) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 um). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Thermal Aerosols or Fogs

For control of adult mosquitoes with thermal aerosols or fogs, apply Cheminova Malathion 57% Mosquito at the rate of 6.0 oz. actual / gallon (7.7 gallons Cheminova Malathion 57% Mosquito in 100 gallons finished solution*) by ground equipment delivering 40 gallons per hour at a vehicle speed of 5 miles per hour to treat a swath width of 300 - 400 feet.

^{*}There is a great variation in the chemical composition of fuel oils which may be used as thermal fog solvents. These differences may cause sludge and/or affect the solubility of the Cheminova Malathion 57% Mosquito.

Nonthermal Aerosols

Adult Mosquito Control - Control of adult mosquitoes over a 300-foot swath can be obtained with nonthermal aerosols of Cheminova Malathion 57% Mosquito using the following rates at the indicated vehicle speeds:

	Dilution R	ates for Chemin	nova Malathion	57% Mosquite		
			ndiluted			
		Apply	y as follows:			
Lbs.A.I./Acre	Application	n Rates Fluid Ounce	es per Minute at Veh	icle Speeds	Fluid Ounces of	
	5 mph	10 mph	15 mph	20 mph	Fyfanon57EC per acre	
0.03 - 0.06	2.3 – 4.5	4.5 - 9.0	6.8 - 13.5	9.0 - 18.0	0.75 - 1.5	
N	Mix 1 Part Cheminov	a Malathion 57% N	1:2 Dilution Iosquito with 2 Parts as follows:	Suitable Fuel Oil	or Water	
Lbs.A.I./Acre	Application	Fluid Ounces of				
	5 mph	10 mph	15 mph	20 mph	finished spray per acre	
0.03 - 0.06	9.0 - 18.0	18.0 – 36.0	27.0 - 54.0	36.0 - 72.0	3.0 - 6.0	
N	1ix 1 Part Cheminov	a Malathion 57% M	1:4 Dilution losquito with 4 Parts As follows:	Suitable Fuel Oil	or Water	
Lbs.A.I./Acre	Application Rates Fluid Ounces per Minute at Vehicle Speed			icle Speeds	Fluid Ounces of	
	5 mph	10 mph	15 mph	20 mph	finished spray per acre	
0.03 - 0.06	11.25- 22.5	22.5 - 45.0	33.75 - 67.5	45.0 - 90.0	3.75 – 7.5	

MOSQUITO CONTROL IN POPULATED AND RURAL AREAS

Adult mosquito control over cities, towns, and other areas where automobiles, trailers, trucks, and pleasure boats are present: Apply 5.1 to 5.9 fluid ounces of Cheminova Malathion 57% Mosquito per acre. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

Adult Mosquitoes on Rangeland, Pasture, and Other Uncultivated Non-Agricultural Areas (Wastelands, Roadsides)

Apply Cheminova Malathion 57% Mosquito at the rate of 4.0 to 6.0 fluid ounces in 2 – 8 quarts of water per acre for control of adult mosquitoes. Application may be made via ground or aerial equipment. Only treat when mosquitoes are swarming or biting. Do not re-treat a site more than 3 times in any one week. However, more frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Cheminova Malathion 57% Mosquito can be mixed with a synergized pyrethrin emulsifiable concentrate (such as 6% pyrethrin + 60% PBO) in accordance with the most restrictive of label limitations and precautions indicated on both this and the tank-mixed product. Label rates must not be exceeded. This product may not be mixed with any product bearing a label which specifically prohibits such mixing. Prior to tank mixing large quantities mix a small amount in a glass jar to verify that the products are physically compatible.

Depending upon your operational needs for knock-down, the amount of synergized pyrethrin can be reduced or adjusted. Application rates of Cheminova Malathion 57% Mosquito and droplet

distribution requirements remain the same as for Cheminova Malathion 57% Mosquito used alone.

OPERATING EQUIPMENT

Each nonthermal aerosol generator used for dispersal of Cheminova Malathion 57% Mosquito to control adult mosquitoes must have minimum capability of producing the droplet spectrum described under **GROUND BASED APPLICATION**. The initial determination of droplet size is made after the unit is installed in a vehicle and prior to its use in mosquito control operations. Recheck the unit as frequently as necessary to insure that proper droplet size is maintained for each operation. Determination of droplet size annually is usually sufficient if the unit has been maintained in good operating condition. If chemical flow rate or any changes or modifications are made to the equipment, recheck the calibration and droplet size characterization. The unit must be inspected before each operation to correct any leaks or obstructions in the spray system; to detect whether the nozzle, hoses, or other parts are worn and need replacement; to insure that the flow meter is properly calibrated and to determine that the pressure recommended by the manufacturer is being maintained. Consult your Equipment manufacturer's instructions for additional calibration and droplet size checks and requirements

Nozzle Direction

- Angled in a backwards direction out the side or rear of the vehicle.
- Angled in an upwards direction based on fogger characteristics.

Vehicle Speed

- Allowable speed dictated by local policies and laws, as well as capabilities of the application equipment.
- Shut off spray equipment when vehicle is stopped.

IMPORTANT: Spray droplets of undiluted Cheminova Malathion 57% Mosquito will permanently damage automobile paint unless all the conditions described and recommended in this label are met. If accidental exposure does occur, the vehicle should be washed at once.

WARRANTY DISCLAIMER

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the Seller. All such risks shall be assumed by Buyer and User. Buyer and User agree to hold Cheminova and the Seller harmless for any claims related to such factors.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to one of the following, at Cheminova's election:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, Cheminova shall not be liable for consequential, incidental, or special damages or losses in any matter.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the Seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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