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



SEP 15 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

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

Subject:

Submission of amended labeling to add crop "Citrus Fruits"

EPA Reg. No. 67760-40

Submissions dated August 19, 2011

Dear Ms. Tackema:

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit two copies of your final printed label before you release the product for shipment. Products shipped after 18 months from the date of this amendment or the next printing of the label which ever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Additional label corrections may be needed pending submittal and review of your responses to the Malathion RED.

A stamped copy is enclosed for your records. If you have any questions, please contact Marianne Lewis at (703) 308-8043 or lewis.marianne@epa.gov.

Regards,

Driss Benmhend, Acting PM 01 Insecticide-Rodenticide Branch Registration Division (7505P)

Enclosure

SUB-LABEL A

ACCEPTED

9/5//

Under the Federal Insecticite,
Pungicide, and Rodenticide Act,
as amended, for the pesticide
Registered under
EPA Reg. No. 67760-40

FYFANON® 57% EC

Organophosphate

ACTIVE INGREDIENT:	•
Malathion*	57.0%
Inert Ingredients**	<u>43.0%</u>
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

EPA Reg. No. 67760-40

EPA Est. No.

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NET	CONTENTS:	
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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 are barrier 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 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:

Fyfanon 57% EC 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 Fyfanon 57% EC is added. Mechanical agitation or recirculation through the pump by-pass 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. When application rate range is given use the higher rate under heavy pest pressure.

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib 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 hoppers; spider mites; spittlebugs; stink bugs; pea aphid	1.5-2 pints	1.25	2 per cutting	14	0	12 hrs
	Armyworms Clover leaf weevil Vetch buchid	2 pints 1.5 pints 2 pints					
	to blooming alfalfa only in	n early mornin	g or evenin	g when bees are	not workin	g field or no	t hanging on
	e of hives. en day temperature is exp	sected to be a	hove 65°E	and when 50-70°	% of leaves	chow dama	100
Apply Wife	Aphids; codling moth;	COLOU IO DE A	2046 00 L	and when 50-70?	o or leaves	SHOW UAITE	ige.
Apricots	European fruit lecanium; orange tortrix; soft brown scale; terrapin scale	2.4 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 o	f 500 (ground) ga	allons of wa	ter/A.	
Barley	Cereal leaf beetle; English grain aphids; grasshoppers; greenbugs; winter grain mites	1-2 pints	1.25	2	7	7	12 hrs
Beets, garden	Aphids	1.5-2 pints	1.25	3	7	7	12 hrs
Do not	t apply to Sugar Beets.				T		
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 blueberrie	s are based o	n a standar	d of 200 gallons	per acre dil	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
	aterpillars on summer and		, begin whe	en true leaves ap	pear. On o	ther plantin	gs and for
other	insects, apply when insec	ts appear.	1	T			,
Cantaloupe	Aphids; spider mites; cucumber beetles; leaf miners; leafhoppers; pickleworms; squash vine borer	1.6 pints	1.0	2	7	1	12 hrs
Caneberries (blackberry; boysenberry; dewberry; gooseberry; loganberry; raspberry)	Aphids; rose scale chafers; Japanese beetle; leafhoppers; mites; thrips	3.2 pints	2.0	3	7	1	12 hrs
	cation rates are based on						
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
Applic	ation rates are based on	a standard dil	ution rate c	f 400 (ground) ga	allons of wa	ter/A for ma	ature trees.
	may occur on certain var	eties of swee	t cherries.				
Citrus Fruits	Thrips; California red	All states otl					
(grapefruit; lemon; lime;	scale; yellow scale; purple scale; black	4.5 pints or 1.5 pints	4.5 or 1.5	3	N/A 30	7	3 days or 12 hrs
orange;	scale; soft scale;	CA only:	<u></u>		L	1	
tangerine; tangelo)	citricola scale	7.5 pints	7.5	1	N/A		3 days
		or 1.5 pints	or 1.5	3	20	7	or 12 bro
a Unc 44	l ne higher rate for heavy ir	1.5 pints	1.5	3	30	L	12 hrs
Apply acre b	with sufficient water to ob by ground, and up to 500 of priate to ensure thorough	tain full cover gallons of wat coverage of f	er per acre	for mature trees.	Use highe	er volumes o	of water as
Clover	Alfalfa weevil larvae; aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid	1.5-2 pints	1.25	2 per cutting	14	0.	12 hrs

Armyworms Clover leaf weevil 1.5 pints 1.0 pints 1.0 3 7 7 12 hrs 1.0 1			T	ı	T			· · · · · · · · · · · · · · · · · · ·
Aphids; harlequin cabbage looper; leaf incabbage looper; leaf miners 1.5 pints 1.0 3 7 7 12 hrs 3 days for detassling; analyzed arrangement 1.5 pints 1.0 3 7 7 12 hrs 3 days for detassling; analyzed arrangement 1.5 pints 1.0 3 3 days for detassling; analyzed arrangement 1.5 pints 1.0 3 3 days for detassling; analyzed arrangement 1.5 pints 1.0 3 3 days for detassling; analyzed arrangement 1.5 pints 1.0 3 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 days for detassling; smaller arrangement 1.5 pints 1.0 3 days for detassling; smaller arrangement 1.5 pints		Clover leaf weevil Vetch buchid	1.5 pints 2 pints					
Collards	Do no	t apply to clover in bloom		· ·			·	
Aphids; corn Earworms; corn Corn (field) Aphids; corn Earworms; corn Corn (sweet and pop) Earworms; corn Earworms; sap beetle; thrips; smaller armyworms; leaf hopper Earworms; sap beetle; thrips; smaller armyworms; leaf hopper Earworms; corn	Collards	cabbage bug; smaller cabbage looper; leaf	1.5 pints	1.0	3	7	7	12 hrs
Sap beetle; thrips; smaller armyworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips spider mite; cut worms; darkling ground beetle; leafhoppers; lygus bugs; thrips; whiteflies; fall armyworms; garden webworms; grasshoppers Cotton Boll weevil 2-4 pints 2.5 3 7 2 days 2 days 2 days 2 days 3	Corn (field)	earworms; corn rootworm adults;	1.5 pints	1.0	2	7	7	detassling; 12 hrs for all other activities
Example Exa		sap beetle; thrips; smaller armyworms;	v.o piine	. 1.0	2	5	5	detassling; 12 hrs for all other
Spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips Aphids; pickleworms; spider mites; cut worms, darkling ground beetle; leafhoppers; squash vine borer; thrips Chayote root Chayote root The at when mites appear in numbers and repeat in 7-10 days. The at when mites app		may occur in the whorl si		n 10% of th	ne ears show silk.			<u> </u>
Chayote root Spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	Chayote fruit	spider mites; cut worms; darkling ground beetle; leafhoppers; squash		1:75	2	7	1	24 hrs
Chestnut Mites 1.5-4 pints 2.5 3 7 2 24 hrs • Treat when mites appear in numbers and repeat in 7-10 days. • Do not treat after shucks split.	Chayote root	Aphids; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash		1.56	2	7	1	24 hrs
● Do not treat after shucks split. Brown cotton leafworm; cotton aphid; cotton leafworm; cotton leafworm; cotton leafworm; cotton leafworm; cotton leafworm; cotton leafworm; spider mite; leafhoppers; lygus bugs; thrips; whiteflies; fall armyworms; garden webworms; grasshoppers 2.5 3 7 7 2 days Boll weevil 2-4 pints 2-4 pints 2.5 3 7 7 2 days • Use higher rates for larger insects or heavy infestations. 2.5 3 7 1 12 hrs • Application rates are based on a standard dilution rate of 200 (ground) gallons of water/A. 2 pints 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	Chestnut	 	1.5-4 pints	2.5	3	7	2	24 hrs
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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		, 				<u> </u>		1 121119
Eggplant Aphids; spider mites 1.6-2.5 pints 1.56 4 5 3 12 hrs						7		24 hrs
			1.6-2.5	1.56	4	5	3	
	Endive	Aphids; spider mites		1.25	2	7	7	24 hrs

(escarole)							
Figs	Dried fruit beetle; vinegar flies	3.2 pints or 2.4 pints + 1-2 gal. sulfured molasses	2.0 or 1.5	2	5	5	24 hrs or 12 hrs
Garlic	Aphids; thrips	1.5-2.5 pints	1.56	3	7	3	24 hrs
Grains, stored (barley, corn, oats, 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.

Grapes (raisin, table, wine) Leafhoppers; spidermites; European fruit lecanium*; Drosophilia; Japanese beet terrapin scale Mealybugs Grape Vines (overwintering on nursery stock only) Grape phylloxe	1.5 pints	1.88	2	14	3	3 days for girdling and tying 24 hrs for all other activities
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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 Fyfanon 57% EC are applied after clusters appear.

Remove excess soil from roots and submerge entire root system in the Fyfanon solution for 5 minutes. Agitate solution at all times.

* Wake full cove	erage applications when i	newly natched	i nympns ai	e migrating over	vines, usua	ally snortly a	after bloom.
Grass, forage, hay (Bermuda, barnyard grass, canary grass, fescue, orchardgrass, red top, timothy, yellow foxtail)	Cereal leaf beetle; aphids; leafhoppers; grasshoppers	2 pints	1.25	1 per cutting	N/A	0	12 hrs
Guava	Drosophila	1.5-2 pints	1.25	13	3	2	12 hrs
Apply	with 1 lb. partially hydroly	zed yeast pro	tein or enzy	ymatic yeast hydi	rolyzate.		
Hops	Aphids; spider mites	1 pint	0.63	3	7	10	12 hrs
Horseradish	Aphids; diamondback moth; flea beetles; leafhoppers	1.5-2 pints	1.25	3	7	7	24 hrs

	T	-				г	·
	Aphids; cabbage						
Wala	looper; imported	1.5 min4n	10		_	7	10 5
Kale	cabbageworm;	1.5 pints	1.0	3	5	/	12 hrs
	webworm;					1	1
	diamondback moth	-				 	ļ
	Aphids; cabbage		1				
	looper; imported						
Kohlrabi	cabbageworm; diamondback moth;	1-2 pints	1.25	2	7	7	24 hrs
	webworm; carrot				ļ		
						1	
	weevil; flea beetle	1.5-2.5			 	 	
Leek	Aphids		1.56	2	7	3	24 hrs
	Onion maggot flies Alfalfa caterpillars*;	pints	ļ	-			
	Alfalfa weevil						
	larvae**;						Ì
Lespedeza	Grasshoppers;	2 pints	1.25	2 per cutting	14	0	12 hrs
	aphids; leafhoppers;				ì	1	
	lygus bugs				ļ		
- Do no	t apply to alfalfa in bloom	<u> </u>	L	<u> </u>	L	<u> </u>	
	irvae are small.	1.					
	irvae are smail. Iay temperature is expect	ed to be abou	o 65°E and	when 50-70% of	leaves sho	w damago	
Apply when c	Aphids; leafhoppers;	Ī	e os r and	When 30-70 % of		w damage.	
(head)	Aprilus, lealifoppers,	3 pints		2	6	14	
(rieau)	spider mites;		1.88			 	24 hrs
Lettuce (leaf)	cabbage lopper	2.5-3 pints	1	2	5	14	1
Macadamia							
nut	Green stink bugs	1.5 pints	0.94	6	7	1	12 hrs
		 Cuferer 570/	FC	a abaulal ba awal			4
	ore than 5.6 lbs. of actual			e snould be appl	led to maca	adamia nut	
Mango	Drosophila;	1.5 pints	0.94	<u>. </u>		L	12 hrs
• Apply	with 1 lb. partially hydroly	/zed yeast pro	otein or enz	ymatic yeast nydi	olyzate.		
	Aphids; spider mites;						1
Melons (other	cucumber beetles;						-
than	leaf miners;	1.6 pints	1.0	2	7	1	12 hrs
watermelon)	leafhoppers;			*			
	pickleworms; squash					1	
	vine borer Aphids; flea beetles;						
Mint	Aprilus, flea beetles,	1 5 minto	0.94	3	7	7	10 6
Mint	leafhoppers; spider	1.5 pints	0.94	٥	'	/	12 hrs
N. C.	mites; caterpillars	 					
Mustards							
(mustard	Aphids; cabbage						
greens;	looper; imported						
mustard	cabbageworm;	1.5 pints	1.0	3	5	7	12 hrs
spinach;	webworm;						
Chinese	diamondback moth						
mustard							
mizuna)	Cnidor mitage alessa	 					-
	Spider mites; plum	1-2 pints	1				
Na stania a a	curculio		20	2	_	-	24 5
Nectarines	Anhida*: Inne		3.0	3	7	7	24 hrs
	Aphids*; Japanese	4-4.8 pints					
	beetles*	<u> </u>		L			L
	cation rates are based on				allons of wa	iter/A.	
	on 57% EC may cause from						
	d with spray oil for dorma	int and delaye	d dormant	applications. Foll	low spray o	il manufact	urer's
directions.			Ţ			· · · · · · · · · · · · · · · · · · ·	
	Cereal leaf beetle;						
Oate	English grain aphids;	1.5 pints	1.0	2	7	7	12 hrs
Oats	young grasshoppers;	1.5 pints	1.0	_	'	. '	121118
	greenbugs						
Okra	Aphids	1.5 pints	1.2	5	7	1	12 hrs

	Japanese beetle	1.9 pints					
	Onion maggots	1.5-2.5					
Onion (bulb		pints	1.56	2	.7	3	12 hrs
and green)	Onion thrips	1.5-2 pints			1		
Papaya	Aphids; mealybugs	1.5-2 pints	1.25	8	3	1	12 hrs
тарауа	Aphids; cabbage	1.0-2 pints	1.20		 	 	121113
	looper; imported						
5	cabbageworm;	1.5-2.4	4.5	•	_		041
Parsley	diamondback moth;	pints	1.5	2	7	7	24 hrs
	webworm; carrot						
	weevil; flea beetle						
	Aphids; cabbage						
	looper; imported		Ì		1		
Parsnip	cabbageworm; diamondback moth;	1.5-2 pints	1.25	3	7	7	24 hrs
	webworm; carrot						
	weevil; flea beetle						
Passion Fruit	Drosophila	1.5 pints	1.0	8	7	-3	12 hrs
	with 1 lb. partially hydroly			matic yeast hyd	drolyzate.		
	Black cherry aphid;	, , , , , ,		,, 17	T		1
	black peach aphid;						1
	European red mite;	2.4 pints					
	green peach aphid;	2.4 pinto			ļ	Į.	
	rusty plum aphid;						
	Japanese beetle; spider mite						
Peaches	spidei fille		3.0	3	11	7	24 hrs
	Oriental fruit moth;						
	plum curculio; cottony						
	peach scale;	4 9 pinto					
	European fruit	4.8 pints					
	lecanium; terrapin						
						1	
	scale				<u> </u>	<u> </u>	
	ation rates are based on						<u> </u>
	ation rates are based on tapply more than 9 poun	ds of actual F					· · · ·
	ation rates are based on						
	ation rates are based on t apply more than 9 poun Aphids	ds of actual F					
	ation rates are based on t apply more than 9 poun Aphids Mealybugs; mites;	ds of actual F					
	ation rates are based on t apply more than 9 poun Aphids	ds of actual F					12 hrs
• Do no	ation rates are based on t apply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth;	ds of actual F	yfanon 57%	EC per acre to	peach tree	S.	12 hrs
• Do no	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller;	ds of actual F	yfanon 57%	EC per acre to	peach tree	S.	12 hrs
• Do no	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; red-	ds of actual F	yfanon 57%	EC per acre to	peach tree	S.	12 hrs
Do no Pears	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller	ds of actual For the second sec	yfanon 57% 1.25	EC per acre to	peach tree	1	12 hrs
Do no Pears Applic	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on	ds of actual F 1 pint 1-2 pints 2 pints a standard dil	1.25	EC per acre to 2 f 300 (ground) g	peach tree	1	12 hrs
Do no Pears Applic Injury	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on	1.25 ution rate of	2 f 300 (ground) g	7 pallons of wa	ater/A.	
Do no Pears Applic Injury Peas (dried,	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on	ds of actual F 1 pint 1-2 pints 2 pints a standard dil	1.25	EC per acre to 2 f 300 (ground) g	peach tree	1	12 hrs
Do no Pears Applic Injury Peas (dried,	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on	1.25 ution rate of	2 f 300 (ground) g	7 pallons of wa	ater/A.	
Do no Pears Applic Injury Peas (dried,	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on	1.25 ution rate of	2 f 300 (ground) g	7 pallons of wa	ater/A.	
Do no Pears Applic	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer²; spider	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints	1.25 ution rate of	2 f 300 (ground) g	7 pallons of wa	ater/A.	
Do no Pears Applic Injury Peas (dried, green)	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer²; spider mites; mites;	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints	ution rate of Bosc pears	2 f 300 (ground) g	7 pallons of wa	ater/A.	12 hrs
Do no Pears Applic Injury Peas (dried, green)	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints	1.25 ution rate of	2 f 300 (ground) g	7 pallons of wa	ater/A.	
Do no Pears Applic Injury Peas (dried,	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ ; Pecan nut	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints	ution rate of Bosc pears	2 f 300 (ground) g	7 pallons of wa	ater/A.	12 hrs
Do no Pears Applic Injury Peas (dried, green)	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ Pecan nut casebearer ² ;	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints	ution rate of Bosc pears	2 f 300 (ground) g	7 pallons of wa	ater/A.	12 hrs
Do no Pears Applic Injury Peas (dried, green) Pecans	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ ; Pecan nut casebearer ² ; Walnut husk fly ² ;	ds of actual Found 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints 1.5-2 pints	ution rate of Bosc pears 1.0	2 f 300 (ground) g	7 peach tree	1 ater/A. 3	12 hrs 24 hrs
Do no Pears Applic Injury Peas (dried, green) Pecans Applic	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ ; Pecan nut casebearer ² ; Walnut husk fly ² ; sation rates are based on	ds of actual Found 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints 1.5-2 pints	ution rate of Bosc pears 1.0	2 f 300 (ground) g	7 peach tree	1 ater/A. 3	12 hrs 24 hrs
• Do no Pears • Applic • Injury Peas (dried, green) Pecans • Applic 25-35	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ Pecan nut casebearer ² ; Walnut husk fly ² sation rates are based on feet high.	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints 1.5-2 pints a standard dil	ution rate of Bosc pears 1.0	2 f 300 (ground) g	7 peach tree	1 ater/A. 3	12 hrs 24 hrs
Applic Injury Peas (dried, green) Pecans Applic 25-35 Apply when by	ation rates are based on tapply more than 9 poun Aphids Mealybugs; mites; pear psylla Codling moth; fruittree leafroller; plum curculio; redbanded leafroller ation rates are based on may occur under certain Pea weevils; aphids Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ ; Pecan nut casebearer ² ; Walnut husk fly ² ; sation rates are based on	ds of actual F 1 pint 1-2 pints 2 pints a standard dil conditions on 1.5 pints 1.5-2 pints a standard dil	ution rate of Bosc pears 1.0	2 f 300 (ground) g	7 peach tree	1 ater/A. 3	12 hrs 24 hrs

	Pepper maggots	2.5 pints		SAB ZARACIE			
Pineapple	Mealybugs	3.2 pints	2.0	3	7	7	24 hrs
Potatoes	Aphids; grasshoppers; leafhoppers False chinch bug Mealybugs	2 pints 1.5 pints 2-2.5 pints	1.56	2	7	0	12 hrs
Pumpkins	Aphids	1.5 pints	1.0	2	7	1	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
Rice Rice (wild)	Rice stink bug; rice leaf miner	2 pints	1.25	2	7	7	12 hrs 12 hrs

- 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.

Do not apply Propanil within 15 days of malathion treatment.
 NOTE FOR AQUATIC USES (rice): Broadcast use only over intermittently flooded areas. Application may not be

made around bodies of water where fish or shellfish are grown and/or harvested.

Rye	Cereal leaf beetle English grain aphids; young grasshoppers; greenbugs	1-1.5 pints 1.5 pints	1.0	3	7	7	12 hrs
Salsify	Aphids; imported cabbage worm; cabbage looper; carrot weevil; flea beetles; leafhoppers; spider mites; thrips	1-2 pints	1.25	3	7	7	24 hrs
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
Squash, summer	Aphids; cucumber beetle; leaf miners; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	2.8 pints	1.75	3	7	1	24 hrs
Squash, winter	Aphids	1.5 pints	1.0	3	7	1	12 hrs
Strawberry	Aphids; spider mites; Field crickets; lygus bugs; spittle bugs; thrips; potato leafhopper; strawberry leafroller; strawberry root weevil; white flies; thrips	1.5-3.2 pints	2.0	4	7	3	12 hrs
Sweet Potatoes	Leafhoppers; Morningglory leaf miner	1.5-2.5 pints	1.56	2	7	0	12 hrs
Swiss chard	Aphids	1.5 pints	1.0	2	7	14	12 hrs
Tomatoes, Tomatillos	Aphids; spider mites Drosophila	1.5 pints 2.5 pints	1.56	4	5	1 .	12 hrs

Do not apply within 1 day of harvest.

Apply a full coverage application to fruit and foliage.

Trefoil (birdsfoot)	Alfalfa weevil larvae; aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid Armyworms Clover leaf weevil Vetch bruchid	1-2 pints 2 pints 1.5 pints 2 pints	1.25	2 per cutting	14	0	12 hrs
Turnips	Aphids; cabbage loopers; imported cabbageworm; carrot weevil	1-2 pints	1.25	3	5 days for turnip greens 7 days for turnip root	1	12 hrs
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 usin A).	g conventiona	al ground s	orayer or air-carri	er type spra	ayer (500 ga	allons 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	1.0	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	0.0054 lb ai/1000 ft ²			
Ornamental and/or shade trees	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year;	12 hrs	

			10 day minimum re- treatment interval	
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 nec plants as injury may occur.	essary. Avoid applying oil-based f	ormulations to valuable ornamental

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.

9-15-11 1/I5/1

SUB-LABEL B

Fyfanon® 57EC 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.

ACTIVE INGREDIENT: *Malathion	
INERT INGREDIENTS:TOTAL:	
* O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate. **Contains Petroleum Distillate (1 gallon contains 5.0 pounds of malathion)	

EPA Est. No.

NET CONTENTS:

EPA Reg. No. 67760-40

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

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:

Fyfanon 57EC Mosquito should be stored in the original unopened container in a secure, dry place. Do not contaminate with other pesticides or fertilizers. Fyfanon 57EC 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 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 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. 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 Fyfanon 57EC 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 Fyfanon 57EC Mosquito at the rate of 6.0 oz. actual / gallon (7.7 gallons Fyfanon 57EC 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 Fyfanon 57EC Mosquito.

Nonthermal Aerosols

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

Dilution Rates for Fyfanon 57EC Mosquito							
Undiluted							
			as follows:				
Lbs.A.I./Acre	Application	n Rates Fluid Ounce	s 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		
		For A	1:2 Dilution				
	Mix 1 Part Fyfa	anon 57EC Mosquit	o with 2 Parts Suital	ole Fuel Oil or Wate	er		
	Apply as follows:						
Lbs.A.I./Acre	Application	n Rates Fluid Ounce	s per Minute at Veh	icle Speeds	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		
	For A 1:4 Dilution						
Mix 1 Part Fyfanon 57EC Mosquito with 4 Parts Suitable Fuel Oil or Water							
Apply As follows:							
Lbs.A.I./Acre Application Rates Fluid Ounces per Minute at Vehicle Speeds Fluid Ounce					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 Fyfanon 57EC Mosquito per acre. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control. 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.

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

Apply Fyfanon 57EC 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.

Fyfanon 57EC 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 Fyfanon 57EC Mosquito and droplet distribution requirements remain the same as for Fyfanon 57EC Mosquito used alone.

OPERATING EQUIPMENT

Each nonthermal aerosol generator used for dispersal of Fyfanon 57EC 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 Fyfanon 57EC 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: