



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 23, 2023

Edward Bockrath  
Product Registration Manager  
FMC Corporation  
Stine Research Center  
1090 Elkton Road  
Newark, Delaware 19711

Subject: Registration Review Label Amendments Incorporating Mitigation from the Fish and Wildlife Services (FWS) and the National Marine Fisheries Services (NMFS) Biological Opinions on the Effects of Malathion on Endangered and Threatened Species and Designated Critical Habitat  
*Product Name:* Fyfanon 57% EC  
*EPA Registration Number:* 279-3607  
*Application Dates:* 6/24/2022 and 10/21/2022  
*Decision Numbers:* 585478 and 589918

Dear Edward Bockrath:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the FWS and NMFS' Biological Opinions on the effects of malathion on federally listed endangered and threatened species and designated critical habitat in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling

Page 2 of 2  
EPA Reg. No. 279-3607  
Decision No. 585478 and 589918

before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions, please contact Carolyn Smith by phone at (202) 566-2273 or via email at [smith.carolyn@epa.gov](mailto:smith.carolyn@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Kelly Sherman", with a long horizontal flourish extending to the right.

Kelly Sherman  
Chief, Risk Management Implementation Branch 3  
Pesticide Re-evaluation Division  
Office of Pesticide Programs

Enclosure

SUB-LABEL A

MALATHION GROUP 1B INSECTICIDE

# FYFANON® 57% EC

Organophosphate

ACTIVE INGREDIENT:

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)

EPA Reg. No. 279-3607

EPA Est. No. 39578-TX-1

NET CONTENTS: \_\_\_\_\_

## KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

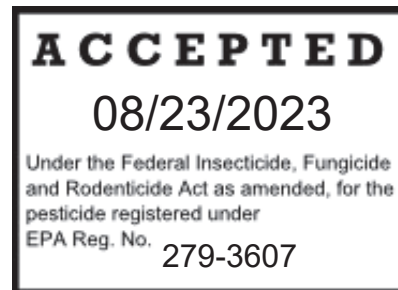
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**IN CASE OF A MEDICAL EMERGENCY INVOLVING THIS PRODUCT,  
CALL TOLL FREE, DAY OR NIGHT 1-800-331-3148**

Sold By



FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104



© Fyfanon is a registered trademark of FMC

<b>FIRST AID</b>	
<b>This product is an organophosphate and a cholinesterase inhibitor.</b>	
<b>IF SWALLOWED:</b>	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.
<b>IF INHALED:</b>	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.
<b>IF ON SKIN OR CLOTHING:</b>	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.
<b>IF IN EYES:</b>	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 1-800-331-3148 for emergency medical treatment information.	
<p><b>NOTE TO PHYSICIAN:</b> Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression.</p> <p>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.</p>	

**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.

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
- 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 fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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.

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 product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. In citrus, stone fruit, pome fruit and tree nuts: Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.**

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-800-331-3148.

### 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.

Do not apply this product when soil is saturated, or when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 48 hours following application.

### **Endangered Species**

It is a Federal offense to use any pesticide in a manner that results in an unauthorized “take” (e.g., kill or otherwise harm) of an endangered species and certain threatened species under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-800-331-3148.

### **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 than 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.

**Restrictions for State/Federal Programs:**

For use only by federal, state, tribal or local government officials responsible for insect control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory Agency to perform grasshopper/Mormon Cricket, Beet Leafhopper or Boll Weevil control applications, or by persons under their supervision, or as allowed by state regulations for persons treating private property.

**Pollinator Protection:**

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

**Pollinator Best Management Practices (Agricultural Uses):**

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

**Pollinator Best Management Practices (Non-Agricultural Uses):**

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

**How to Report Bee Kills:** It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at [beekill@epa.gov](mailto:beekill@epa.gov). To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: [http://npic.orst.edu/reg/state\\_agencies.html](http://npic.orst.edu/reg/state_agencies.html).

**Reporting Ecological Incidents:** To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-800-331-3148.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Fyfanon® 57% EC contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Fyfanon® 57% EC and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of Fyfanon® 57% EC or other Group 1B insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same



pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):

- o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
  - Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
  - Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
  - For further information or to report suspected resistance contact FMC at 1-800-331-3148.

## **Mandatory Spray Drift Management**

### **Aerial Applications:**

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard (ASABE S641).
- If the windspeed is 10 miles per hour or less, applicators must use 3/4 swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use a full swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

### **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. Aerial applicators must consider flight speed and nozzle orientation in determining droplet size. When applications are made with a crosswind, 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.

### **Mandatory Spray Drift Management, *continued***

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.

#### **Airblast applications:**

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

#### **Ground Boom Applications:**

- Do not release spray at a height greater than 4 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- Do not apply when wind speeds exceed 10 mph at the application site.
- Do not apply during temperature inversions.

### **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 to Water Bodies**

##### **Ground Application**

- Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, wetlands, ponds, estuaries, and commercial fish ponds). You must follow the instructions for additional buffer distances beyond the 25 feet, as applicable, per the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov).

##### **Aerial Application**

- Do not apply within 50 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, wetlands, ponds, estuaries, and commercial fish ponds). You must follow the instructions for additional buffer distances beyond the 50 feet, as applicable, per the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov).

**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.

## 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.

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 (hrs or 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	14	0	12 hrs
	Armyworms	2 pints					
	Clover leaf weevil Vetch bruchid	1.5 pints 2 pints					
• Do not apply to alfalfa in bloom.							
Apricots	Aphids; codling moth; European fruit lecanium; orange tortrix; soft brown scale; terrapin scale	2.4 pints	1.5	2	7	6	12 hrs
• Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.							
Asparagus	Asparagus aphid Asparagus beetle Thrips	2 pints 2 pints 1.5-2 pints	1.25	2	7	6	12 hrs
Avocado	Greenhouse thrips latnia scale; Omnivorous looper; Orange tortrix; Soft brown scale	7.5 pints	4.7	2	30	7	2 days
• Application rates are based on a standard dilution rate of 500 (ground) gallons of water/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	2	7	7	12 hrs
• Do not apply to Sugar Beets.							
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
• The rates for use on blueberries are based on a standard of 200 gallons per acre dilute spray.							
Broccoli; Chinese Broccoli; Broccoli Raab	Aphids; cabbage looper; imported cabbageworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	2	2 days

(continued)

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 (hrs or days)
Brussels sprouts	Aphids; cabbage looper; imported cabbageworm; 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	3	7	7	2 days
<ul style="list-style-type: none"><li>• For caterpillars on summer and fall plantings, begin when true leaves appear. On other plantings and for other insects, apply when insects appear.</li></ul>							
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)	Aphid; rose scale chafers; Japanese beetle; leafhoppers; mites; thrips	3.2 pints	2.0	3	7	1	12 hrs
<ul style="list-style-type: none"><li>• Application rates are based on a standard dilution rate of 200 (ground) gallons of water/A.</li></ul>							
Carrots	Aphids; leafhoppers	1.5-2 pints	1.25	2	7	1	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
<ul style="list-style-type: none"><li>• Application rates are based on a standard dilution rate of 400 (ground) gallons of water/A for mature trees. Injury may occur on certain varieties of sweet cherries.</li><li>• Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.</li></ul>							

(continued)

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 (hrs or days)	Additional Restrictions
Citrus Fruits (grapefruit; lemon; lime; orange; tangerine; tangelo)	Thrips; California red scale; yellow scale; purple scale; black scale; soft scale; citricola scale	FL only:						
		2.4 pints	1.5	3	30	7	12 hrs	None
		CA only:						
		12 pints or 2.4 pints	7.5 or 1.5	1 3	N/A 30	7	3 days or 12 hrs	This application rate is applicable to CA only. If this application rate is used in CA: • At 7.5 lbs. ai/A, only airblast applications are permitted (aerial applications prohibited); • At 1.5 lbs. ai/A, only 3 applications of malathion may be made to the treated field within the same calendar year. or at 7.5 lbs. ai/A, only one application of malathion may be made to the treated field within the same calendar year.
		All States other than CA and FL:						
7.2 pints or 2.4 pints	4.5 or 1.5	1 3	N/A 30	7	3 days or 12 hrs	• At 1.5 lbs. ai/A, only 3 applications of malathion may be made to the treated field within the same calendar year. • At 4.5 lbs. ai/A, only one application of malathion may be made to the treated field within the same calendar year.		
<ul style="list-style-type: none"> <li>• Use the higher rate for heavy infestation.</li> <li>• Apply with sufficient water to obtain full coverage of foliage. Apply in a minimum of 100 gallons of water per acre by ground, and up to 500 gallons of water per acre for mature trees. Use higher volumes of water as appropriate to ensure thorough coverage of foliage, depending on density and size of area to be treated.</li> <li>• Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.</li> </ul>								

(continued)

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 (hrs or days)
Clover	Alfalfa weevil larvae; aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid	1.5-2 pints	1.25	4	14	0	12 hrs
	Armyworms Clover leaf weevil Vetch bruchid	2 pints 1.5 pints 2 pints					
<ul style="list-style-type: none"> <li>Do not apply to clover in bloom.</li> </ul>							
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 earworms; corn rootworm adults; young grasshoppers; sap beetle; thrips; smaller armyworms; leaf hopper	1.5 pints	1.0	2	7	7	3 days for detassling; 12 hrs for all other activities
Corn (sweet and pop)				3	5	5	3 days for detassling; 12 hrs for all other activities
<ul style="list-style-type: none"> <li>For corn earworm and sap beetles, treat when 10% of the ears show silk.</li> <li>Injury may occur in the whorl silk stage.</li> </ul>							
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	2.5	2	7	2	24 hrs
<ul style="list-style-type: none"> <li>Treat when mites appear in numbers and repeat in 7-10 days.</li> <li>Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.</li> <li>Do not treat after shucks split.</li> </ul>							

(continued)

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 (hrs or 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	1.5-4 pints	2.5	2	7	7	2 days
	Boll weevil Cotton fleahoppers Lygus bugs; thrips	2-4 pints 1-1.5 pints 4 pints					
<ul style="list-style-type: none"> <li>• Use higher rates for larger insects or heavy infestations.</li> </ul>							
Currant	Rose chafer mites	2 pints	1.25	2	7	1	12 hrs
<ul style="list-style-type: none"> <li>• Application rates are based on a standard dilution rate of 200 (ground) gallons of water/A.</li> </ul>							
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
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	2	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
<ul style="list-style-type: none"> <li>• Do not apply directly to grain.</li> <li>• Before applying spray, clean thoroughly.</li> <li>• Remove and burn all sweeping and debris.</li> <li>• For a residual wall, floor and machinery spray in grain elevators and silos, before loading grain, make a thorough application.</li> </ul>							



(continued)

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 (hrs or days)
Grapes (raisin, table, wine)	Leafhoppers; spider mites; European fruit lecanium*; Drosophila; Japanese beetle; terrapin scale	3 pints	1.88	2	14	3	3 days for girdling and tying
Grape Vines (overwintering on nursery stock only)	Mealybugs Grape phylloxera	1.5 pints 3 pints per 200 gallons					24 hrs for all other activities
<ul style="list-style-type: none"> <li>• Application rates are based on a standard dilution rate of 200 (ground) gallons of water/A.</li> <li>• Injury may occur on grapes of Almeria, Cardinal, Italia and Ribier varieties when sprays containing Fyfanon® 57% EC are applied after clusters appear.</li> <li>• Remove excess soil from roots and submerge entire root system in the Fyfanon solution for 5 minutes.</li> <li>• Agitate solution at all times.</li> </ul> <p>*Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom.</p>							
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	4	14	0	12 hrs
Guava	Drosophila	1.5-2 pints	1.25	13	3	2	12 hrs
<ul style="list-style-type: none"> <li>• Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.</li> </ul>							
Hops	Aphids; spider mites	1 pint	0.63	2	7	10	12 hrs
Horseradish	Aphids; diamondback moth; flea beetles; leafhoppers	1.5-2 pints	1.25	2	7	7	24 hrs
Kale	Aphids; cabbage looper; imported cabbageworm; webworm; diamondback moth	1.5 pints	1.0	3	5	7	12 hrs
Kohlrabi	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	3	24 hrs
Leek	Aphids Onion maggot flies	1.5-2.5 pints	1.56	2	7	3	24 hrs

(continued)

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 (hrs or days)
Lespedeza	Alfalfa caterpillars*; Alfalfa weevil larvae**; Grasshoppers; aphids; leafhoppers; lygus bugs	2 pints	1.25	1 per cutting; Maximum number of applications is 2 per year	14	0	12 hrs
<ul style="list-style-type: none"> <li>Do not apply to Lespedeza in bloom.</li> <li>*Apply when larvae are small.</li> <li>**Apply when day temperature is expected to be above 65° F and when 50-70% of leaves show damage.</li> </ul>							
Lettuce (head)	Aphids; leafhoppers;	3 pints	1.88	2	6	14	24 hrs
Lettuce (leaf)	Spider mites; cabbage looper	2.5-3 pints		2	5	14	
Macadamia nut	Green stink bugs	1.5 pints	0.94	6	7	1	12 hrs
<ul style="list-style-type: none"> <li>No more than 5.6 lbs. of actual Fyfanon® 57% EC per acre should be applied to macadamia nut trees.</li> </ul>							
Mango	Drosophila	1.5 pints	0.94	13	7	1	12 hrs
<ul style="list-style-type: none"> <li>Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.</li> </ul>							
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	0.84	2	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	1-2 pints	3.0	2	7	7	24 hrs
	Aphids*; Japanese beetles*	4-4.8 pints					
<ul style="list-style-type: none"> <li>Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A.</li> <li>Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.</li> <li>Fyfanon® 57% EC may cause fruit spotting on nectarines.</li> <li>*May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions.</li> </ul>							
Oats	Cereal leaf beetle; English grain aphids; young grasshoppers; greenbugs	1.5 pints	1.0	2	7	7	12 hrs
Okra	Aphids Japanese beetle	1.5 pints	1.2	4	7	1	12 hrs
		1.9 pints					

(continued)

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 (hrs or days)
Onion (bulb and green)	Onion maggots	1.5-2.5 pints	1.56	2	7	3	12 hrs
	Onion thrips	1.5-2 pints					
Papaya	Aphids; mealybugs	1.5-2 pints	1.25	8	3	1	12 hrs
Parsley	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1.5-2.4 pints	1.5	2	7	7	24 hrs
Parsnip	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1.5-2 pints	1.25	2	7	7	24 hrs
Passion Fruit	Drosophila	1.5 pints	1.0	13	7	3	12 hrs
• Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.							
Peaches	Black cherry aphid; black peach aphid; European red mite; green peach aphid; rusty plum aphid; Japanese beetle; spider mite	2.4 pints	3.0	2	11	7	24 hrs
	Oriental fruit moth; plum curculio; cottony peach scale; European fruit lecanium; terrapin scale	4.8 pints					
• Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. • Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • Do not apply more than 9 lbs. of actual Fyfanon® 57% EC per acre to peach trees.							
Pears	Aphids	1 pint	1.25	2	7	1	12 hrs
	Mealybugs; mites; pear psylla	1-2 pints					
	Codling moth; fruittree leafroller; plum curculio; red-banded leafroller	2 pints					
• Application rates are based on a standard dilution rate of 300 (ground) gallons of water/A. • Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • Injury may occur under certain conditions on Bosc pears.							
Peas (dried, green)	Pea weevils; aphids	1.5 pints	1.0	2	7	3	12 hrs

(continued)

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 (hrs or days)
Pecans	Pecan bud moth; aphids; pecan leaf casebearer <sup>2</sup> ; spider mites; mites; Pecan phylloxera <sup>1</sup> ; Pecan nut casebearer <sup>2</sup> ; Walnut husk fly <sup>2</sup>	1.5-2 pints	2.5	2	7	7	24 hrs
<ul style="list-style-type: none"> <li>• Application rates are based on a standard dilution rate of 500 (ground) gallons of water/A for mature trees 25-35 feet high.</li> <li>• Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.</li> </ul> <p><sup>1</sup> Apply when buds begin to develop.  <sup>2</sup> Apply when first generation eggs begin to hatch.</p>							
Peppers	Aphids	1-2.5 pints	1.56	2	5	3	12 hrs
	Pepper maggots	2.5 pints					
Pineapple	Mealybugs	3.2 pints	2.0	3	7	0	24 hrs
Potatoes	Aphids; grasshoppers; leafhoppers	2 pints	1.56	2	7	0	12 hrs
	False chinch bug	1.5 pints					
	Mealybugs	2-2.5 pints					
Pumpkins	Aphids	1.5 pints	1.0	2	7	1	12 hrs
Radish	Aphids	1.5 pints	1.0	2	7	7	12 hrs
Rutabagas	Aphids	1.5 pints	1.0	2	7	7	12 hrs
Rice Rice (wild)	Rice stink bug; rice leaf miner	2 pints	1.25	2	7	7	12 hrs
<ul style="list-style-type: none"> <li>• Treat for leafminers shortly after first rice blades appear on surface of the water.</li> <li>• For leafminers, apply when the eggs and larvae are abundant on the seedling rice.</li> <li>• Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.</li> <li>• Do not apply Propanil within 15 days of malathion treatment.</li> <li>• A 24-hour holding time is required before floodwaters may be released after treatment to rice.</li> </ul> <p><b>NOTE FOR AQUATIC USES (rice):</b> 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.</p>							
Rye	Cereal leaf beetle	1-1.5 pints	1.0	2	7	7	12 hrs
	English grain aphids; young grasshoppers; greenbugs	1.5 pints					
Salsify	Aphids; imported cabbage worm; cabbage looper; carrot weevil; flea beetles; leafhoppers; spider mites; thrips	1-2 pints	1.25	2	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

(continued)

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 (hrs or days)
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	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
<ul style="list-style-type: none"> <li>• Do not apply within 1 day of harvest.</li> <li>• Apply a full coverage application to fruit and foliage.</li> </ul>							
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	1 per cutting; Maximum number of applications is 2 per year	14	0	12 hrs
Turnips	Aphids; cabbage loopers; imported cabbageworm; carrot weevil	1-2 pints	1.25	2	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 leaf hoppers; spider mites; spittlebugs; vetch bruchid; omnivorous leaf tier	1-2 pints	1.25	1 per cutting; Maximum number of applications is 2 per year	14	0	12 hrs
Walnuts	Aphids; European red mites; walnut aphid; walnut husk fly	4 pints	2.5	3	7	7	24 hrs
<ul style="list-style-type: none"> <li>• Applications may be made using conventional ground sprayer or air-carrier type sprayer (500 gallons of water/A).</li> </ul>							
Watercress	Aphids	1.6-2 pints	1.0 or 1.25	5	3	3	12 hrs or 24 hrs
<ul style="list-style-type: none"> <li>• Do not apply when water is on the field.</li> <li>• Do not irrigate until 24 hours after application.</li> </ul>							
Watermelons	Aphids	1.5 pints	1.0	2	7	1	12 hrs
Wheat (Spring and Winter)	Cereal leaf beetle	1-1.5 pints	1.0	2	7	7	12 hrs
	English grain aphids; young grasshoppers; greenbugs	1.5 pints					
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 (hours)
Christmas tree plantations	82	3.2 lb ai/A	Maximum of 2 applications per year	12 hrs
Restrictions on Christmas Tree Plantations and Nurseries: <ul style="list-style-type: none"> <li>• Aerial application is prohibited.</li> <li>• Do not apply more than two applications per year.</li> <li>• Minimum retreatment interval is 7 days.</li> </ul>				
Fence rows/hedge rows*	6	0.0054 lb. ai/1000 ft <sup>2</sup>		
*Uncultivated areas and fence rows/hedge row agricultural uses and Non-agricultural right of way/hedgerow uses are limited to State and Federal Programs only.				
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	Maximum of 2 applications per year; 10 day minimum re-treatment interval	12 hrs
Ornamental non-flowering plants	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year; 10 day minimum re-treatment interval	12 hrs
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
Restrictions on Commercial Nurseries for Ornamental Plants, Vines, Shrubs and Ornamental/Shade Trees <ul style="list-style-type: none"> <li>• Aerial application is prohibited.</li> <li>• Do not apply more than two applications per year.</li> <li>• Minimum retreatment interval is 10 days.</li> </ul>				
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
Restriction for Pine Seed Orchard Use <ul style="list-style-type: none"> <li>• For use in slash pine seed orchards in Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Texas only.</li> <li>• Malathion may be used to control thrips from mid-December to mid-March.</li> <li>• Do not apply more than two applications per year.</li> <li>• Minimum retreatment interval is 7 days.</li> <li>• Do not apply by ground within 25 feet or by air within 50 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries, and commercial fish farm ponds).</li> <li>• For airblast applications, user must turn off outward pointing nozzles at row ends and when spraying outer row.</li> <li>• For aerial applications, do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety. Applicators must use ½ swath displacement upwind at the downwind edge of the field.</li> <li>• Do not apply when the wind speed is greater than 10 mph.</li> <li>• Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (per ASABE S572 for ground and ASABE S641 for aerial).</li> <li>• Do not apply during temperature inversions.</li> </ul>				

## FLY CONTROL

**Fly control:** For use on the lower outside foundation of farm buildings and structures where livestock are maintained and flies congregate and breed.

Pest Controlled	Rate	Directions for Use
Adult flies	Straight sprays: 5 tablespoons + 1 gallon water or 1 cup + 2.5 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 + 2.5 gallon water or 1 cup + 1 cup sugar or molasses (unsulfurized) or corn syrup + 2.5 gallon water or 1 quart + 2.5 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.		

**D-4724A 040523**

### Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or FMC, and Buyer assumes the risk of any such use.**

To the extent consistent with applicable law, FMC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT

CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.



SUB-LABEL B

## Fyfanon® 57 EC 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..... 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)

EPA Reg. No. 279-3607

EPA Est. No.

Net Contents

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
Product of Denmark

® Fyfanon is a registered trademark of FMC Corporation

## 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)

SEE [OTHER PANELS] [INSIDE] [BOOKLET] [BANEL PANEL] FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950
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<b>FIRST AID</b>	
<b>CONTAINS AN ORGANOPHOSPHATE THAT INHIBITS CHOLINESTERASE</b>	
<b>IF SWALLOWED:</b>	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.
<b>IF INHALED:</b>	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.
<b>IF ON SKIN OR CLOTHING:</b>	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.
<b>IF IN EYES:</b>	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.	
<p><b>NOTE TO PHYSICIAN:</b> Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression.</p> <p>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.</p>	

**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)**

Mixers, Loaders and Flaggers must wear:

- Long sleeved shirt and long pants;
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl-rubber ≥14 mils, nitrile rubber ≥14 mils, or viton ≥ 14 mils

*{Note to Reviewer: These requirements will be left off commercial label if aerial applications are removed as an approved application method.}*

Aerial applications, pilots must wear:

- Long sleeved shirt and long pants;
- Shoes plus socks

- Chemical-resistant gloves made of barrier laminate, butyl-rubber  $\geq 14$  mLs, nitrile rubber  $\geq 14$  mLs, or viton  $\geq 14$  mLs must be worn when a pilot comes into contact with, adjusts, or makes repairs to contaminated equipment after applications but prior to routine decontamination procedures. Gloves are not required while inside the aircraft.

*{Note to Reviewer: These requirements will be left off commercial label if ground applications are removed as an approved application method.}*

Ground applications must be made using enclosed cabs only. Drivers must wear:

- Long sleeved shirt and long pants;
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **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 fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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.

Reporting Ecological Incidents: To report ecological, including mortality, injury, or harm to plants and animals, call 1-(800)-321-1FMC(1362).

#### **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® 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 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.

### **Endangered Species Protection Requirements:**

It is a Federal offense to use any pesticide in a manner that results in an unauthorized “take” (e.g., kill or otherwise harm) of an endangered species and certain threatened species under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

### **Ecological Incidents Reporting**

Reporting Ecological Incidents: To report ecological, including mortality, injury, or harm to plants and animals, call 1-(800)-321-1FMC(1362).

### **Pollinator Protection Language**

To minimize hazard to bees, do not apply this product more than two hours after sunrise or more than two hours before sunset. This timing restriction prohibits applications when bees are most active (mid-day). This restriction does not apply when applications are made as a spot treatment or 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.

Calibrate and inspect nozzles at least once a year to ensure they are in good working condition.

### **RESISTANCE MANAGEMENT**

For resistance management, Fyfanon 57EC Mosquito contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Fyfanon 57EC Mosquito and other Group 1B insecticide. The resistant individuals may dominate the insect population of this group of insecticides are used repeatedly in the same areas. Appropriate resistance-management strategies should be followed.

- Rotate the use of Fyfanon 57EC Mosquito or other Group 1B insecticides within an application season with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues for mosquitoes between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC).
- Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the mosquitoes.
- Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
- When using mixtures, consider any known cross-resistance issues between the individual

components for the target pest.

- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insect activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local or state mosquito management authorities for more pesticide resistance-management strategies and/or IPM recommendations.

### Ultra-Low Volume Applications

#### **Mandatory Spray Drift Management**

- Apply when ground wind speeds are equal to or greater than 1 mph.
- All types of applications should be conducted when temperatures at ground level are at or above 50°F.

#### For Ground Applications:

- Create an optimum swath when possible. An optimum swath width can be achieved when Fyfanon 57EC Mosquito is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area.
- FOR BEST RESULTS treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the spray cloud in the air column close to the ground.
- An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

#### For Aerial Applications:

- Do not apply by fixed wing aircraft at a nozzle height less than 100 feet (30.5 m) above ground or canopy, or by helicopter at a height less than 75 feet (22.9 m) above the ground or canopy, unless specifically approved by the state or tribe based on public health needs.
- Adult mosquito control applications should be limited to trained personnel.
- 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 supervision, or as allowed by state regulations for persons treating private property.
- This pesticide is toxic to aquatic organisms. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to aquatic organisms.
- 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 beyond the body of water to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

- Before making the first application in a season, consult with the state or tribal Agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.
- Treatment of a site must be based on surveillance results. Do not treat any site with malathion more than 1 time per day. Do not apply more than 0.23 lbs ai/acre of when Fyfanon 57EC Mosquito per day by air or 0.06 lbs ai/acre per day by ground within any 24-hour period. Do not treat any site with more than 0.46 lb ai/acre within a 7 day period and the amount of undiluted when Fyfanon 57EC Mosquito applied to any site must not exceed 5.75 lbs ai/acre per year. 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 effort.

## **MOSQUITO CONTROL IN POPULATED AND RURAL AREAS**

### **PRECAUTIONS AND RESTRICTIONS**

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

### **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.
- 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.
- 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.

### **AERIAL APPLICATION**

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ( $D_v 0.5 < 60 \text{ urn}$ ) and that 90% of the spray is contained in droplets smaller than 100 microns ( $D_v 0.9 < 100 \text{ um}$ ). 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:

<b>Dilution Rates for Fyfanon 57EC Mosquito</b>					
<b>Undiluted</b>					
Apply as follows:					
Lbs. A.I./Acre	Application Rates Fluid Ounces per Minute at Vehicle Speeds				Fluid Ounces of Fyfanon 57EC per acre
	5 mph	10 mph	15 mph	20 mph	
0.03 - 0.06	2.3 – 4.5	4.5 – 9.0	6.8 – 13.5	9.0 - 18.0	0.75 -1.5
<b>For a 1:2 Dilution</b>					
Mix 1 Part Fyfanon 57EC Mosquito with 2 Parts Suitable Fuel Oil or Water					
Apply as Follows:					
Lbs. A.I./Acre	Application Rates Fluid Ounces per Minute at Vehicle Speeds				Fluid Ounces of Fyfanon 57EC per acre
	5 mph	10 mph	15 mph	20 mph	
0.03 - 0.06	9.0 - 18.0	18.0 – 36.0	27.0 – 54.0	36.0 – 72.0	3.0 – 6.0
<b>For a 1:4 Dilution</b>					
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 Ounces of Fyfanon 57EC per acre
	5 mph	10 mph	15 mph	20 mph	
0.03 - 0.06	11.25 – 22.5	22.5 – 45.0	33.75 – 67.5	45.0 - 90.0	3.75 – 7.5

**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**                                -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.

## Conditions of Sale and Limitation of Warranty and Liability

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before using this product. If the terms are not acceptable, return the product at once, unopened.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC. To the extent consistent with applicable law, all such risks shall be assumed by User, and User agrees to hold FMC harmless for any claims relating to such factors.

**FMC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) FMC, and user assumes the risk of any such use.**

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER, AND THE EXCLUSIVE LIABILITY OF FMC FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

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