

5905-250

6/6/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

JUN - 6 2012

Bill Washburn
Registration Specialist
Helena Chemical Co
7664 Smythe Farm Rd
Memphis TN 38120

Subject Submission of amended labeling per Use Deletion Guidance 12/30/08 and revised
May 2009 Malathion RED Label Table
EPA Reg No 5905 250
Submissions dated February 8 2010

Dear Mr Washburn

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 12 months from the date of this amendment or the next printing of the label whichever 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)

The Basic Confidential Statement of Formula (CSF) dated 1/27/11 is acceptable All other CSF s including Alternates have been superseded by this new CSF This has been added to your record

Your product has met and is in compliance with the risk mitigation provisions of the 2009 Malathion RED and therefore your product is reregistered pursuant to FIFRA § 4(g)(2)(C) But note EPA is currently reassessing the cumulative impact of organophosphates and that review may impact your product once complete 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

A handwritten signature in black ink that reads "Venus Eagle".

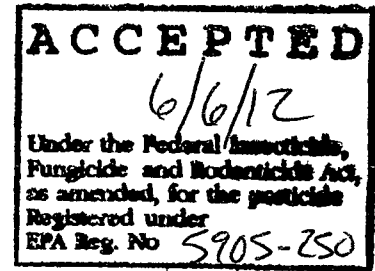
Venus Eagle PM 01
Insecticide Rodenticide Branch
Registration Division (7505P)

Enclosure

SUBLABEL A

FYFANON 8 LB EMULSION

Organophosphate Insecticide



**FOR INSECT CONTROL ON LISTED
ORNAMENTALS FRUIT AND NUT TREES AND VEGETABLE PLANTS**

ACTIVE INGREDIENT

Malathion (O O Dimethyl phosphorodithioate of diethyl mercaptosuccinate)

INERT INGREDIENTS

% BY WT

81.8%

18.2%

TOTAL 100.00%

Contains 8 lbs of Malathion per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice • Have a person sip a glass of water if able to swallow • Do not induce vomiting unless told to by a poison control center or doctor • Do not give anything by mouth to an unconscious person
IF IN EYES	<ul style="list-style-type: none"> • 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
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing call 911 or ambulance then give artificial respiration preferably by mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • 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
<p>NOTE TO PHYSICIAN This product may cause cholinesterase inhibition Atropine is antidotal 2 PAM may be effective as an adjunct to atropine</p>	
<p>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1 866 944 8565 Have the product container or label with you when calling a poison control center or doctor or going for treatment</p>	

EPA Reg No 5905 250

EPA Est No

Manufactured for
Helena Chemical Company
225 Schilling Boulevard Suite 300
Collierville TN 38017

NET CONTENTS ___ GALLONS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed Causes moderate eye irritation Harmful if absorbed through skin Harmful if inhaled Avoid contact with eyes skin or clothing Avoid breathing spray mist or vapor Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are barrier laminate butyl rubber nitrile rubber and Viton If you want more options follow the instructions for category (F) on an EPA chemical resistance category selection chart

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

- Long sleeved shirt and long pants*
- Shoes plus socks*
- Chemical resistant gloves*

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

See engineering controls for additional requirements

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that is consistent with the 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

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 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

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 To protect the environment do not allow pesticide to enter or run off into storm drains drainage ditches gutters or surface waters

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

For commercial industrial and institutional use products packaged in containers equal or greater than 5 gallons or 50 pounds

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

Do not use or store near heat or open flame This product is incompatible with other chemicals (e g oxidizing agents)

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 (REI) The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

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

Shoes plus socks and

Chemical resistant gloves made of any waterproof material

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

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

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

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

APPLICATION THROUGH IRRIGATION SYSTEMS – CHEMIGATION

Apply this product only through sprinkler including center pivot lateral move end tow side (wheel) roll traveler big gun solid set or hand move flood (basin) furrow border or drip (trickle) irrigation systems Do not apply this product through any other type of irrigation system

Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water

If you have questions and calibration you should contact State Extension Service specialists equipment manufacturers or other experts

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise
 Mix in clean supply tank the recommended amount of this product for acreage to be covered and needed quantity of water
 Do not tank mix this product with other pesticides surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use
 Follow precautionary statements and directions for all tank mixed products
 On all crops use sufficient gallonage of water to obtain thorough and uniform coverage but not cause runoff or excessive leaching This will vary depending on equipment pest problem and stage of crop growth Application of more or less than optimal quantity of water may result in decreased chemical performance crop injury or illegal pesticide residues
 Meter this product into the irrigation water uniformly during the period of operation Do not overlap application Follow specified label rates application timing and other directions and precautions for crop being treated
 Continuous mild agitation of pesticide mixture may be needed to assure a uniform application particularly if the supply tank requires a number of hours to empty

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note Helena Chemical Company does not encourage connecting chemigation systems to public water supplies The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year Chemigation systems connected to public water systems must contain a functional reduced pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe

The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection

The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock Do not apply when wind speed favors drift beyond the area intended for treatment

SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump

The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock Do not apply when wind speed favors drift beyond the area intended for treatment

FLOOD (BASIN) FURROW AND BORDER CHEMIGATION (SOIL DRENCH USES)

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements

- a The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- b The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- c The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

- d The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- e The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- f Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

DRIP (TRICKLE) CHEMIGATION (SOIL DRENCH USES)

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump

The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

APPLICATIONS

Use rates and use directions as noted below Use higher rate when foliage is heavy or infestation is severe Apply when pests first appear Apply the following specified rates in sufficient water to thoroughly cover one acre By ground apply using a minimum of 10 gallons of water/A and by air apply using a minimum of 2 gallons of water/A (standard is 100 gallons of water for thorough coverage sprays) Do not apply orchard rates in less than 10 gallons of water per acre

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Alfalfa Birdsfoot Trefoil Clover Lespedeza Vetch	Aphids Armyworm Grasshoppers Clover Leaf Weevil Leafhopper Spider Mites	1.25	Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications is 2 per cutting and the minimum retreatment interval is 14 days	0
Apricots	Aphids Codling Moth Orange Tortrix Soft Brown Scale Terrapin Scale	1.5	Full coverage spray The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.5 pounds active ingredient per acre (1.5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	6
Asparagus	Asparagus Beetle Thrips	1.25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	1
Avocados	Green House Thrips Latania Scale Omnivorous Looper Soft Brown Scale Orange Tortrix	4 to 4.7	The Restricted Entry Interval (REI) is 48 hours The maximum application rate is 4.7 pounds active ingredient per acre (4.7 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 30 days	7
Barley	Aphids Cereal Leaf Beetle Grasshoppers Greenbugs	1.25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Beets (Garden) Do not apply to Sugar Beets	Aphids	1 to 1 25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Blackberries Boysenberries Dewberries Gooseberries Loganberries Raspberries	Rose Scale Aphids	2	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 2 0 pounds active ingredient per acre (2 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	1
	Japanese Beetle Leafhoppers Mites Thrips	1 to 2		
Blueberries	Japanese Beetle Cherry Fruitworm Cranberry Fruitworm Plum Curculio Sharpnose Leafhopper	1 25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 5 days	1
Broccoli Broccoli Raab (Rapini) Brussels Sprouts Cauliflower Chinese Broccoli Cavalo Broccolo Mizuna Mustard Spinach Rape Greens	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1 25	The Restricted Entry Interval (REI) is 48 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	2
Cabbage	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1 25	The Restricted Entry Interval (REI) is 48 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 6 and the minimum retreatment interval is 7 days	7
Cabbage Chinese (Bok Choy Napa) Cabbage Chinese Mustard	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1 25	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Carrots roots	Aphids	1 to 1 25	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
	Leafhoppers			
Celery	Spider Mites Aphids	1 to 1 5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 5 pounds active ingredient per acre (1 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Chernes (sweet & tart)	Black Cherry Aphid Bud Moth Cherry Fruit Fly Forbes Scale Fruit Tree Leafroller San Jose Scale Lesser Peach Tree Borer	1 75	May injure foliage of some varieties The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 75 pounds active ingredient per acre (1 75 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 4 and the minimum retreatment interval is 3 days	3
Chestnuts	Mites	2 to 2 5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 2 5 pounds active ingredient per acre (2 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	2

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Citrus (Grapefruit Lemons Limes Oranges Tangerines Tangelos)	Aphids Black Scale California Red Scale Citricola Scale Florida Red & Purple Scale Soft Scale Thrips Yellow Scale Mediterranean Fruit Fly	CA 7.5 pts or 1.5 pts All other states 4.5 pts or 1.5 pts	Do not apply during full bloom <u>California Only</u> At the maximum application rate of 7.5 pounds active ingredient per acre (7.5 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 72 hours and the maximum number of applications per year is 1 OR At the maximum application rate of 1.5 pounds active ingredient per acre (1.5 pts Fyfanon 8 LB Emulsion) the REI is 12 hours the maximum number of applications per year is 3 the minimum application interval is 30 days and the minimum preharvest interval is 7 days <u>All States other than CA</u> At the maximum application rate of 4.5 pounds active ingredient per acre (4.5 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 72 hours and the maximum number of applications per year is 1 OR At the maximum application rate of 1.5 pounds active ingredient per acre (1.5 pts Fyfanon 8 LB Emulsion) the REI is 12 hours the maximum number of applications per year is 3 the minimum application interval is 30 days and the minimum preharvest interval is 7 days	7
Collards	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 pounds active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Corn (field)	Aphids Cereal Leaf Beetle Corn Earworm Corn Rootworm adult Grasshoppers Sap Beetle Thrips	1	For corn earworm apply to silks as soon as they appear The Restricted Entry Interval (REI) is 72 hours for detasseling and 12 hours for all other activities The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Corn Sweet	Japanese Beetles	1	The Restricted Entry Interval (REI) is 72 hours for detasseling and 12 hours for all other activities The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 5 days	5
Cotton	Aphids Boll Weevil Cotton Leaf Perforator Cotton Leafworm Leafhoppers Lygus Bug Mites Thrips White Flies Fall Armyworm Fleahopper Garden Webworm Grasshopper	1.5 to 2.5	The Restricted Entry Interval (REI) is 48 hours The maximum application rate is 2.5 pounds active ingredient per acre (2.5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Cucumbers	Aphids Pickeworm Spider Mites Thrips	1 to 1.75	Do not apply unless plants are dry The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1.75 pounds active ingredient per acre (1.75 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	1
	Cucumber Beetle	1.75		
Currants	Currant Aphid Imported Currantworm	1.25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	1
	Japanese Beetle Mites	1 to 1.25		

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Dandelions	Aphids	1 to 1.25	The Restricted Entry Interval (REI) is 24 hours. The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days.	7
Eggplant	Aphids Spider Mite	0.75 to 1.56	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 1.56 pounds active ingredient per acre (1.56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 4 and the minimum retreatment interval is 5 days.	3
	Lace bugs	1.56		
Endive	Aphids Mites	1 to 1.25	The Restricted Entry Interval (REI) is 24 hours. The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days.	7
Figs	Dried Fruit Beetle Vinegar Flies	2.0 pts plus 2 gals unsulfurized molasses as a bait spray	At the maximum application rate of 2.0 pounds active ingredient per acre (2.0 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 24 hours. The maximum number of applications per year is 2 and the minimum application interval is 5 days. OR At the maximum application rate of 1.5 pounds active ingredient per acre (1.5 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 12 hours. The maximum number of applications per year is 2 and the minimum application interval is 5 days.	5
Flax	Grasshoppers	0.5	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 0.5 pound active ingredient per acre (0.5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days.	52
Garlic	Thrips Aphids	1 to 1.5	The Restricted Entry Interval (REI) is 24 hours. The maximum application rate is 1.56 pounds active ingredient per acre (1.5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days.	3
Grapes	Drosophila Japanese Beetle Leafhopper Mealybugs Spider Mite Terrapin Scale	1.88	May cause injury to foliage on some varieties. The Restricted Entry Interval (REI) is 72 hours for girdling and tying and 24 hours for all other activities. The maximum application rate is 1.88 pounds active ingredient per acre (1.88 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 14 days.	3
Grasses Grass Hay	Aphids Leafhoppers Grasshoppers Armyworms	1.25	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 1.	0
Guava	Fruit Flies	0.75 pt + 1 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 1.25 pounds active ingredient per acre the maximum number of applications is 13 and the minimum retreatment interval is 3 days.	2
Hops	Aphids	0.63	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 0.63 pounds active ingredient per acre (0.63 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days.	10
Horseradish	Aphids	1 to 1.25	The Restricted Entry Interval (REI) is 24 hours. The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days.	7
Kale	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1	The Restricted Entry Interval (REI) is 12 hours. The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 5 days.	7

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Kohlrabi	Aphids Imported Cabbage Worm Cabbage Looper Flea Beetle	1 25	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Kumquats	Aphids Black Scale California Red Scale Citricola Scale Florida Red Scale Florida Purple Scale Soft Scale Thrips Yellow Scale	4 5	Do not apply during full bloom The Restricted Entry Interval (REI) is 48 hours The maximum application rate is 4 5 pounds active ingredient per acre (4 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 1 and the minimum retreatment interval is 30 days	7
	Mediterranean Fruit Fly	1 to 4 5		
Leeks	Thrips Aphids	1 to 1 56	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 56 pounds active ingredient per acre (1 56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	3
Lettuce	Aphids Leafhoppers	1 25 to 1 88	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 88 pounds active ingredient per acre (1 88 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 6 days for head and 5 days for leaf	14
	Cabbage Looper Mites	1 88		
Macadamia Nuts	Green Stink Bug	0 94	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 0 94 pounds active ingredient per acre (0 94 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 6 and the minimum retreatment interval is 7 days	1
Mango	Fruit Flies	0 75 pt + 1 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 0 9375 pounds active ingredient per acre (0 9375 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 10 and the minimum retreatment interval is 7 days	1
Melons(other than watermelon)	Aphids Pickworm Spider Mites Thrips Cucumber Beetle	1	Do not apply unless plants are dry The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pounds active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	1
Mustard Greens	Aphids Cabbage Looper Flea Beetle Imported Cabbageworm	1 0	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pound active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 5 days	7
Nectannes	Aphids (Green Peach Black Cherry Black Peach Rusty Plum) Japanese Beetle Mites (European Red Two- Spotted)	2 5 to 3	Full coverage spray The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 3 0 pound active ingredient per acre (3 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
	Cottony Peach Scale Lesser Peach Tree Borer Plum Curculio Oriental Fruit Moth Terrapin Scale	3		

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Oats	Aphids Cereal Leaf Beetle Grasshoppers Greenbugs	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pound active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Okra	Aphids Japanese Beetle	1 2	The maximum application rate is 1 2 pounds active ingredient per acre (1 2 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 5 and the minimum retreatment interval is 7 days	1
Onions (bulb and green)	Onion Thrips	1 to 1 56	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 56 pounds active ingredient per acre (1 56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	3
	Onion Maggots	1 56		
Papaya	Aphids Mealybugs	1 25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 8 and the minimum retreatment interval is 3 days	1
Parsley	Aphids	1 to 1 5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 5 pounds active ingredient per acre (1 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Parsnips	Aphids	1 to 1 25	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Passion Fruit	Fruit Flies	0 75 pt + 1 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pound active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 8 and the minimum retreatment interval is 7 days	3
Peaches	Aphids (Green Peach Black Cherry Black Peach Rusty Plum) Japanese Beetle Mites (European Red Two Spotted)	2 5 to 3	Full coverage spray The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 3 0 pounds active ingredient per acre (3 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 11 days	7
	Cottony Peach Scale Lesser Peach Tree Borer Plum Curculio Oriental Fruit Moth Terrapin Scale	3		
Peas	Aphids Pea Weevil	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pound active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	3
Pecans	Pecan Bud Moth Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Aphids Mites	2 5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 2 5 pounds active ingredient per acre (2 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Peppers	Aphids	0 75 to 1 5	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 56 pounds active ingredient per acre (1 56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 5 days	3
	Pepper Maggots	1 5		

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Peppermint Spearmint	Adult Flea Beetle Aphids Leafhoppers Spider Mites	0.94	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 0.94 pounds active ingredient per acre (0.94 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Pineapples	Mealybugs	2	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 2.0 pounds active ingredient per acre (2.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Potatoes	Aphids False Chinch Bugs Leafhoppers Mealybugs	1 to 1.5	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.56 pounds active ingredient per acre (1.56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	0
Pumpkins	Aphids Pickleworms Spider Mites Thrips Cucumber Beetle	1	Do not apply unless plants are dry The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	1
Radishes	Aphids	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Rice	Rice Leafminers Rice Stink Bugs	1.25	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 commercially The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Rutabagas	Aphids	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Rye	Aphids Cereal Leaf Beetles Grasshoppers Greenbugs	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Salsify (including tops)	Aphids	1 to 1.25	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1.25 pounds active ingredient per acre (1.25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	7
Shallots	Aphids Thrips	1 to 1.5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1.56 pounds active ingredient per acre (1.56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	3
Sorghum Grain	Greenbugs	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7
Spinach	Aphids	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1.0 pound active ingredient per acre (1.0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7

Crop	Pest	Rate Pints/Acre	Directions	Pre Harvest Interval (PHI)
Squash	Aphids Pickeworms Spider Mites Thrips Cucumber Beetles	Summer 1 75 pts Winter 1 0 pts	Do not apply unless plants are dry For Summer Squash the Restricted Entry Interval (REI) is 24 hours The maximum application rate is 1 75 pounds active ingredient per acre (1 75 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days For Winter Squash the Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 0 pound active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7 days	1
Strawberries	Aphids Lygus Bugs Spittle Bugs Potato Leafhoppers Strawberry Leafroller Whitefly Strawberry Root Weevil Field Crickets Spider Mites Thrips	1 to 2	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 2 0 pounds active ingredient per acre (2 0 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 4 and the minimum retreatment interval is 7 days	3
Sweet Potatoes	Leafhoppers	1 to 1 56	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 56 pounds active ingredient per acre (1 56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	0
	Morningglory Leafminers	1 56		
Swiss Chard	Aphids	1	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 pound active ingredient per acre (1 pt Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	14
Tomatoes	Aphids Spider Mites	1 to 1 56	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 56 pounds active ingredient per acre (1 56 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 4 and the minimum retreatment interval is 5 days	1
	Drosophila Tomato Russet Mites Armyworms Fruit Worms	1 56		
Turnips	Aphids Cabbage Loopers Flea Beetles Imported Cabbageworms	1 25	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 5 days for greens and 7 days for roots	24 hrs
Walnuts	Aphids Mites Walnut Husk Fly	2 5	The Restricted Entry Interval (REI) is 24 hours The maximum application rate is 2 5 pounds active ingredient per acre (2 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 3 and the minimum retreatment interval is 7	7
Watercress	Aphids	1 0 to 1 25	At the maximum application rate of 1 25 pounds active ingredient per acre (1 25 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 24 hours The maximum number of applications per year is 5 and the minimum application interval is 3 days OR At the maximum application rate of 1 0 pounds active ingredient per acre (1 0 pts Fyfanon 8 LB Emulsion) the Restricted Entry Interval (REI) is 12 hours The maximum number of applications per year is 5 and the minimum application interval is 3 days	3
Watermelon	Aphids Spider Mites Cucumber Beetle Leafhopper Pickeworms	1 5	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 1 5 pound active ingredient per acre (1 5 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 4 and the minimum retreatment interval is 7 days	1

Crop	Pest	Rate Pmts/Acre	Directions	Pre Harvest Interval (PHI)
Wheat (spring & summer)	Aphids Cereal Leaf Beetles Grasshoppers Greenbugs	10	The Restricted Entry Interval (REI) is 12 hours The maximum application rate is 10 pound active ingredient per acre (10 pts Fyfanon 8 LB Emulsion) the maximum number of applications per year is 2 and the minimum retreatment interval is 7 days	7

OUTDOOR ORNAMENTALS

Precaution Before treating a large number of ornamental plants with FYFANON 8 LB EMULSION alone or as a tank mixture with any other material make a test application on a few plants and observe 7 10 days prior to treating large areas to reduce the possibility of plant injury

CROP	RATE	PESTS	COMMENTS
Ornamental Herbaceous Plants Ornamental and/or Shade Trees Ornamental Woody Shrubs	1 pt in 100 gals of water as a dilute spray	Aphids Euonymus Scale European Pine Shoot Moth Four lined Leaf Bug Japanese Beetle Adults Lace Scale Mealybugs Millipedes Oyster Shell Scale Potato Leafhopper Rose Leafhopper Scurfy Scale Spider Mites Springtails Sowbugs Tarnished Plant Bug Thrips Whiteflies	IMPORTANT Avoid use on certain ferns including Boston Maidenhair and Pteris as well as some species of Crassula and Canaetr Juniper For Oyster Shell Fletch Juniper Oak Kermes and Pine Needle Scales apply when scale crawlers have settled on foliage The Restricted Entry Interval (REI) is 12 hours Maximum of 2 applications per year/growing cycle 10 day minimum retreatment interval
	1 25 pts in 100 gals of water as a dilute spray	Azalea Scale Bagworm Birch Leafminer Boxwood Leafminer Fletch Scale Florida Red Scale Juniper Scale Magnolia Scale Oak Kermes Pine Leaf Scale Tent Caterpillar	
	1 6 pts in 100 gals of water	Black Scale Crawler Monterey Pine Scale	
	2 5 pts in 100 gals of water	Pine Needle Scale Wax Scale	
CROP	RATE	PESTS	COMMENTS
Slash Pine Pine Seed Orchards and Christmas Tree Plantations	For ground application mix 3 2 pts of FYFANON 8 LB EMULSION in 100 gals of water	Slash Pine Flower Thrips European Pine Sawfly	Apply 6 pts of the mixture per tree on the smallest flowering trees Mist blowers or airblast sprays may be used The Restricted Entry Interval (REI) is 12 hours Maximum of 2 applications per year/growing cycle 10 day minimum retreatment interval maximum single application rate of 3 2 lb ai/100 gallons
	For air application mix 3 2 pts of FYFANON 8 LB EMULSION in at least 10 gals of water		

SMALL GRAIN STORAGE FACILITIES (Grain Elevators/Silos)

Only for use in storage facilities being prepared to store corn wheat rye oats and barley grain Before applying spray clean elevators/silos thoroughly Remove and burn all sweepings and debris Before loading grain apply 5 pts/25 gals of water making a thorough application Do not apply directly to grain REI = 12 hours The maximum single application rate is 0.6 lb ai/ 1000 ft² The maximum number of application is 1 per storage period

FLY CONTROL

Amount of Spray	Amount Fyfanon 8 LB Emulsion	Directions for Use
1 gal	1.2 fl oz	For use around the lower foundation of homes and as a spot treatment only on yards Apply spray at rate of 1 gal per 1 000 sq ft on painted surfaces and 2 gals per 1 000 sq ft on unpainted surfaces where flies alight or congregate
10 gal	12 fl oz	
100 gal	7.5 pints	

BAIT SPRAY Add the following sugar or unsulfurized molasses/corn syrup to the following spray

Amount of Spray	Amount of Sugar	Amount of Unsulfurized Molasses/ Corn Syrup
1 gal	1/2 cup	4 fl oz
10 gal	2 lbs	26 fl oz
100 gal	20 lbs	2 gal

Cull Fruit and Vegetable Dumps On cull fruit and vegetable dumps mix 7.5 pts in 100 gals of water and apply as a drench using 8 10 gals of spray per 100 sq ft Not for use on dumps over 18" deep Do not feed treated fruit and vegetables

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage and disposal

PESTICIDE STORAGE FYFANON 8 LB EMULSION 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) Store in a cool dry well ventilated area Store separately from strong alkalis and strong oxidizers Keep container tightly closed when not in use

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)

CONTAINER DISPOSAL Nonrefillable container Do not reuse or refill this container Offer for recycling if available Triple rinse container (or equivalent) promptly after emptying **For containers up to 5 gallons 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 1/4 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 **For containers greater than 5 gallons or 50 pounds Triple rinse as follows** Empty the remaining contents into application equipment or a mix tank Fill the container 1/2 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 If not recycled then puncture and dispose of in a sanitary landfill Triple rinse or pressure rinse container (or equivalent) promptly after emptying **For 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 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

For help with any spill leak fire or exposure involving this material call day or night CHEMTREC - 1 800 424 9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability By buying or using this product the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability which no employee or agent of HELENA CHEMICAL COMPANY or the seller is authorized to vary in any way

Follow the Directions for Use of this product carefully It is impossible to eliminate all risks inherently associated with the use of this product Crop or other plant injury ineffectiveness or other unintended consequences may result from such risks as weather or crop conditions mixture with other chemicals not specifically identified in this product's label or use of this product contrary to the label instructions all of which are beyond the control of HELENA CHEMICAL COMPANY and the seller The buyer or user of this product assumes all such inherent risks

Subject to the foregoing inherent risks HELENA CHEMICAL COMPANY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THIS PRODUCT IS SOLD AS IS AND HELENA CHEMICAL COMPANY MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT HELENA CHEMICAL COMPANY HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS HELENA CHEMICAL COMPANY 225 SCHILLING BOUELVARD SUITE 300 COLLIERVILLE TN 38017

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY LOSS OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT NEGLIGENCE STRICT LIABILITY OR OTHER TORTS SHALL BE LIMITED TO ONE OF THE FOLLOWING AT THE ELECTION OF HELENA CHEMICAL COMPANY OR THE SELLER DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT TO THE EXTENT CONSISTENT WITH APPLICABLE LAW HELENA CHEMICAL COMPANY AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL SPECIAL OR INDIRECT DAMAGES OR DAMAGES IN THE NATURE OF A PENALTY

17/21

SUBLABEL B

FYFANON 8 LB EMULSION

Organophosphate Insecticide

For Wide Area Mosquito Control

ACTIVE INGREDIENT

Malathion (O O Dimethyl phosphorodithioate of diethyl mercaptosuccinate)

INERT INGREDIENTS

% BY WT

81.8%

18.2%

TOTAL 100.00%

Contains 8 lbs of Malathion per gallon

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice Have a person sip a glass of water if able to swallow Do not induce vomiting unless told to by a poison control center or doctor Do not give anything by mouth to an unconscious person
IF IN EYES	<ul style="list-style-type: none"> 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
IF INHALED	<ul style="list-style-type: none"> Move person to fresh air If person is not breathing call 911 or ambulance then give artificial respiration preferably by mouth to mouth if possible Call a poison control center or doctor for further treatment advice
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> 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
<p>NOTE TO PHYSICIAN This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.</p>	
<p>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1 866 944 8565</p> <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	

EPA Reg No 5905 250

EPA Est No

Manufactured for
Helena Chemical Company
225 Schilling Boulevard Suite 300
Collierville TN 38017

NET CONTENTS _____ GALLONS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed Causes moderate eye irritation Harmful if absorbed through skin Harmful if inhaled Avoid contact with eyes skin or clothing Avoid breathing spray mist or vapor Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are barrier laminate butyl rubber nitrile rubber and Viton If you want more options follow the instructions for category (F) on an EPA chemical resistance category selection chart

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

- Long sleeved shirt and long pants*
- Shoes plus socks*
- Chemical resistant gloves*

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

See engineering controls for additional requirements

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that is consistent with the 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 FOR WIDE AREA MOSQUITO ADULTICIDE USE

This pesticide is toxic to aquatic organisms including fish and invertebrates

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

Do not use or store near heat or open flame This product is incompatible with other chemicals (e.g. oxidizing agents)

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

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

MOSQUITO CONTROL

PRECAUTIONS AND RESTRICTIONS

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
 Apply when wind speed is greater than or equal to 1 mph
 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
 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 8 LB Emulsion will permanently damage vehicle paint finishes unless the aircraft used for the ultra low volume application meets all of the specifications listed below

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 and the nozzle flow rate(s) 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 8 LB Emulsion at the rate of 0.23 pts Fyfanon 8 LB Emulsion 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 feet (equivalent to 180 acres per hour) At 0.23 pts Fyfanon 8 LB Emulsion per 100 gallons of finished solution this is equivalent to 0.23 lb ai/acre

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 8 LB Emulsion

Nonthermal Aerosols

Control of adult mosquitoes over a 300 foot swath can be obtained with non thermal aerosols of Fyfanon 8 LB Emulsion using the following rates at the indicated vehicle speeds

Dilution Rates for Fyfanon 8 LB Emulsion					
Undiluted					
Apply as follows					
Lbs A I /Acre	Application Rates Fluid Ounces per Minute at Vehicle Speeds				Fluid Ounces of finished spray 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
For A 1 2 Dilution					
Mix 1 part Fyfanon 8 LB Emulsion 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 finished spray 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

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 Changes per Agency letter dated 06/05/2012

For A 1 4 Dilution					
Mix 1 part Fyfanon 8 LB Emulsion 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 finished spray 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

Use higher rate of application when vegetation is dense and/or mosquito populations are heavy

OPERATING EQUIPMENT

Each nonthermal aerosol generator used for dispersal of Fyfanon 8 LB Emulsion 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. Rechecked the unit frequently to insure that proper droplet size is maintained for each operation. Determination of droplet size every two months is usually sufficient if the unit has been maintained in good operating condition. Equipment manufacturer's instructions setting forth cleaning and maintenance of the unit must be followed. 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.

- Flow Rate** must be regulated by accurate flow meter
not greater than 1 gallon per hour at 5 mph 2 gallons per hour at 10 mph 3 gallons per hour at 15 mph or 4 gallons per hour at 20 mph
- Nozzle Direction** rear of the vehicle
upward at an angle of 45 or more
- Vehicle Speed** not greater than 20 mph
shut off spray equipment when vehicle is stopped

IMPORTANT – Spray droplets of undiluted Fyfanon 8 LB Emulsion 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.

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 3 6 fluid ounces Fyfanon 8 LB Emulsion only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

Adult Mosquitoes on Rangeland Pasture and Other Uncultivated Non Agricultural Areas (Wastelands Roadsides) Apply Fyfanon 8 LB Emulsion at the rate of 2 8 to 3 6 fluid ounces in 2–8 quarts of water per acre for control of adult mosquitoes. Application may be made via ground or aerial equipment.

This product 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 operation needs the amount of synergized pyrethrin can be reduced or adjusted. Application rates of this product and droplet distribution requirements remain the same as for this product used alone.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage and disposal.
PESTICIDE STORAGE FYFANON 8 LB EMULSION 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). Store in a cool dry well ventilated area. Store separately from strong alkalis and strong oxidizers. Keep container tightly closed when not in use.
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).
CONTAINER DISPOSAL Nonrefillable container Do not reuse or refill this container. Offer for recycling if

available Triple rinse container (or equivalent) promptly after emptying **For containers up to 5 gallons 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 / 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 **For containers greater than 5 gallons or 50 pounds 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 If not recycled then puncture and dispose of in a sanitary landfill **Triple rinse or pressure rinse container (or equivalent) promptly after emptying** **For 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 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
For help with any spill leak fire or exposure involving this material call day or night CHEMTREC – 1 800 424 9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability By buying or using this product the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability which no employee or agent of HELENA CHEMICAL COMPANY or the seller is authorized to vary in any way

Follow the Directions for Use of this product carefully It is impossible to eliminate all risks inherently associated with the use of this product Crop or other plant injury ineffectiveness or other unintended consequences may result from such risks as weather or crop conditions mixture with other chemicals not specifically identified in this product's label or use of this product contrary to the label instructions all of which are beyond the control of HELENA CHEMICAL COMPANY and the seller The buyer or user of this product assumes all such inherent risks

Subject to the foregoing inherent risks HELENA CHEMICAL COMPANY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THIS PRODUCT IS SOLD AS IS AND HELENA CHEMICAL COMPANY MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE

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