

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

August 23, 2023

Bill Washburn Registration Manager Helena Agri-Enterprises, LLC d/b/a Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, TN 38017

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 MALATHION INSECTICIDE *EPA Registration Number*: 5905-196 *Application Dates*: 5/25/2022 and 9/14/2022 *Decision Numbers*: 584979 and 589925

Dear Bill Washburn:

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

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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.

Sincerely,

flym

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

Enclosure

FYFANON[®] MALATHION INSECTICIDE

ACTIVE INGREDIENT:

Malathion: O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate	57.33%
OTHER INGREDIENTS*	42.67%
TOTAL	
*Contains naturals un distillates	

*Contains petroleum distillates.

(ONE GALLON OF FYFANON CONTAINS 5 POUNDS OF MALATHION)

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.)

FIRST AID
Organophosphate
IF IN EYES:
 Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.
Call a poison control center or doctor for treatment advice.
IF SWALLOWED:
Immediately call a poison control center or doctor.
 Do not induce vomiting unless told to by a poison control center or doctor.
Do not give any liquid to the person.
Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:
Take off contaminated clothing
Rinse skin immediately with plenty of water for 15-20 minutes.
Call a poison control center or doctor for treatment
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency, call
1-800-424-9300.
NOTE TO PHYSICIAN
Contains petroleum distillates. May pose an aspiration pneumonia hazard. Contains an organophosphate that inhibits cholinesterase.

Atropine is antidotal. 2PAM may be effective as an adjunct to atropine.

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONS AND DIRECTIONS FOR USE.

SN 082912 EPA REG. NO. 5905-196 EPA EST. NO. First letters of batch code indicate producing establishment: 5905-GA-1=CG • 5905-AR-1=WA • 5905-IA-1=DI • 5905-CA-1=KC



A C C E P T E D 08/23/2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5005 1000

^{(eg. No.} 5905-196

NET CONTENTS:

MANUFACTURED FOR HELENA AGRI-ENTERPRISES, LLC 225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TENNESSEE 38017 PHONE: 901-761-0050

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, or viton. If you want more options, follow the instructions for category *F* on an EPA chemical-resistance category selection chart.

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

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves
- Chemical-resistant headgear (add for airblast application)
- Chemical-resistant apron (add for mixers and loaders)
- Goggles or face shield

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 CONTROLS

Pilots must use an enclosed cockpit in 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.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 901-761-0050.

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.

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 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.

DIRECTIONS FOR USE

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

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Outdoor non-agriculture use sites:

- Do not apply by ground within 25 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).
- Do not spray the product into apply within 25 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).
- Do not apply directly to or allow the product to enter sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
- Do not apply or irrigate to the point of runoff.

For agriculture use sites:

Non-ULV Ground Application (includes ground boom and airblast applications)

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 To obtain Bulletins, consult http://www.epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov.

Non-ULV 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.

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.

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.

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 901-761-0050.

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/pollinators.

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.

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. 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.

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 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.

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. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

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.

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.

ADDITIONAL REQUIREMENTS FOR AERIAL APPLICATIONS

Filename: Fyfanon Malathion Insecticide (5905-196) 041323 CLN.doc

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.

MANDATORY SPRAY DRIFT MANAGEMENT

Non-Ultra Low Volume (ULV) 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.

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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

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

To delay insecticide resistance, take the following steps:

• Rotate the use of **FYFANON® MALATHION INSECTICIDE** or other Group 1B insecticides within a growing season, or among growing seasons, 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 the targeted pests) between the individual components of a mixture. In addition, consider the following Page 11 of 18 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 target species.

- 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 targeted pest(s).
- 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 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 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 Helena Agri-Enterprises, LLC at 901-761-0050 or at www.helenaagri.com .

AGRICULTURAL USES

Use the higher rate when insect pressure is heavy.

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.

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Alfalfa	Alfalfa weevil larvae*; aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid	1.5-2 pints	1.25	2 per cutting	14	0	12 hrs
	Armyworms Clover leaf weevil Vetch buchid	2 pints 1.5 pints 2 pints					
	ooming alfalfa only in early m y temperature is expected to						
Apricots	Aphids; codling moth; European fruit lecanium; orange tortrix; soft brown scale; terrapin scale	2 pints	1.5	2	7	6	12 hrs
	bly this product within 3 days	prior to bloom,	during bloom, or	until petal fall is	complete.		
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 standa	ard dilution rate	of 500 (ground) of	allons of water//	۹.		•
Barley	Cereal leaf beetle; English grain aphids; grasshoppers; greenbugs; winter grain mites	1-2 pints	1.25	2	7	7	12 hrs
Beets, garden	Aphids	1.5-2 pints	1.25	3	7	7	12 hrs
	ly 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 f	or use on blueberries are ba	sed on a stand	ard of 200 gallons	s per acre dilute :	spray.		
Broccoli; Chinese Broccoli; Broccoli Rabb	Aphids; cabbage looper; imported cabbageworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	2	2 days
Brussels sprouts	Aphids; cabbage looper; imported cabbage worm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	2	2 days

Crop	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Cabbage	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1-2 pints	1.25	3	7	7	2 days
	ars on summer and fall plan	tings, begin wi	nen true leaves ap	ppear. On other	plantings for liste	ed insects, apply v	vhen first appear.
Chinese cabbage	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1-2 pints	1.25	2	7	7	2 days
For caterpill	ars on summer and fall plan	itings, begin wł	nen true leaves ap	opear. On other	plantings for liste	ed insects, apply v	vhen first appear.
Caneberries (blackberry; boysenberry; dewberry; gooseberry; loganberry; raspberry)	Aphids; rose scale chafers; Japanese beetle; leafhoppers; mites; thrips	3 pints	2.0	3	7	1	12 hrs
	rates are based on a standa	ard dilution rate	of 200 (ground) of	allons of water/	A.	•	
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
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
particularly	rates are based on a standa in the Northwest. y this product within 3 days			-		es. Injury may occ	cur on sweet cherries,
Citrus Fruits	Thrips; California red		her than CA:	I			
(grapefruit; lemon; lime; orange; tangerine; tangelo)	scale; yellow scale; purple scale; black scale; soft scale; citricola scale	4.5 pints or 1.5 pints	4.5 or 1.5	1 3	N/A 30	7	3 days or 12 hrs
		CA only:					
		7.5 pints or 1.5 pints	7.5 or 1.5	1	N/A 30	7	3 days or 12 hours

- Use the higher rate for heavy infestation.
- Apply with sufficient water to obtain full coverage of foliage. Apply in a minimum of 200 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.
- Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Clover Alfalfa weevil larvae; aphids; grasshoppers; lygus bugs; potato leaf hoppers; spider mites; spittlebugs; stink bugs; pea aphid	1.5-2 pints	1.25	2 per cutting 5 4 applications	14	0	12 hrs	
	Armyworms Clover leaf weevil Vetch buchid	2 pints 1.5 pints 2 pints		per year			
	ly to clover in bloom.		•		•	•	•
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;	1.5 pints		2	7	7	3 days for detasseling; 12 hrs for all other activities
Corn (sweet and pop)	corn (sweet smaller armyworms;			2	5	5	3 days for detasseling; 12 hrs for all other activities
	rworm and sap beetles, trea		the ears show sil	k.			
Injury may of Cotton	occur in the whorl silk stages Brown cotton leafworm; cotton aphid; cotton leafworm; cotton leaf perforator; desert spider mite; leafhoppers; lygus bugs; thrips; whiteflies; fall armyworms; garden webworms; grasshoppers	s. 1.5-4 pints					
	Boll weevil	2-4 pints	2.5	2	7	7	2 days
	Cotton fleahoppers	1-1.5 pints					
	Lygus bugs; thrips	4 pints					

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
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 pints + 1-2 gal. sulfured molasses	2.0	2	5	5	24 hrs
Garlic	Aphids; thrips	1.5-2.5 pints	1.56	2	7	3	24 hrs
Grain Elevators & Silos (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.	5 lb/25 gallons	1 per storage period	N/A	N/A	12 hrs
	d burn all sweeping and deb al wall, floor and machinery Leafhoppers; spidermites; European fruit lecanium*; Drosophilia; Japanese beetle; terrapin scale		elevators and silc	os, before loading	grain, make a	thorough applicati	on.
	Mealybugs		4.00	2 for grapes	14	3	3 days for girdling and tying
		1 ½ pints	1.88	1 for grape vines	17	Ŭ	24 hrs for all other activities

* Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom.

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Grass, forage, hay (Bermuda, barnyard	Cereal leaf beetle; aphids; leafhoppers; grasshoppers			1 per cutting			
grass, canary grass, fescue, orchardgrass, red top, timothy, yellow foxtail)		2 pints	1.25	4 applications per year	14	0	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	7	24 hrs
Kumquats	Thrips; California red scale; yellow scale; purple scale; black scale; soft scale; citricola scale	4.5 pints	4.5	1	N/A	7	2 days
gallons of w density and	ufficient water to obtain full ater per acre for mature tre- size of area to be treated.	es. Use higher	volumes of water	r as appropriate	to ensure thorou		
Do not apply Leek	y this product within 3 days Aphids	1.5-2.5					
	Onion maggot flies	pints	1.56	2	7	3	24 hrs
Lettuce (head)	Aphids; leafhoppers;	3 pints	1.88	2	6	14	24 hrs
Lettuce (leaf)	spider mites; cabbage lopper	2.5-3 pints	1.88	2	5	14	24 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

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Nectarines	Spider mites; plum curculio	1-2 pints	3.0	2	7	7	24 hrs
	Aphids*; Japanese beetles*	4-4.8 pints	5.0	Ζ	1	1	24 1115
Do not appFyfanon Ma	rates are based on a standa ly this product within 3 days alathion Insecticide may cau with spray oil for dormant ar	prior to bloom, ise fruit spotting	during bloom, or g on nectarines.	until petal fall is	complete.	directions.	
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 1.9 pints	1.2	5	7	1	12 hrs
Onion (bulb and green)	Onion maggots Onion thrips	1.5-2.5 pints	1.56	2	7	3	12 hrs
		1.5-2 pints					
Parsnip	Aphids; cabbage looper; imported cabbageworm; diamondback moth; webworm; carrot weevil; flea beetle	1.5-2 pints	1.25	3	7	7	24 hrs
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					21110
Do not app	rates are based on a standa ly more than 9 pounds of ac ly this product within 3 days	tual Fyfanon M	alathion Insecticio	le per acre per y	ear to peach tre	es.	
Peas (dried, green)	Pea weevils; aphids	1.5 pints	1.0	2	7	3	12 hrs
Pecans	Pecan bud moth; aphids; pecan leaf casebearer ² ; spider mites; mites; Pecan phylloxera ¹ ; Pecan nut casebearer ² ; Walnut husk fly ² ;	1.5-2 pints	2.5	2	7	7	24 hrs
• Do not app ¹ Apply when bu	rates are based on a standa ly this product within 3 days lds begin to develop. st generation eggs begin to h	prior to bloom,				es 25-35 feet high	

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
Peppers	Aphids Pepper maggots	1-2.5 pints 2.5 pints	1.56	2	5	3	12 hrs
Potatoes Aphids; grasshoppers; leafhoppers	2 pints						
	False chinch bug	1.5 pints	1.56	2	7	0	12 hrs
	Mealybugs	2-2.5 pints					
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

• Treat for leafminers shortly after first rice blades appear on surface of the water.

• For leafminers, apply when the eggs and larvae are abundant on the seedling rice.

• Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water/A.

• Do not apply Propanil within 15 days of malathion treatment.

• A 24-hour holding time is required before floodwaters may be released after treatment to rice.

NOTE FOR AQUATIC USES (rice): Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested.

Rye	Cereal leaf beetle	1-1.5 pints	1.0	0	7	7	40 has
	English grain aphids; young grasshoppers; greenbugs	1.5 pints	1.0	2	7	7	12 hrs
Salsify	Aphids; imported cabbage worm; cabbage looper; carrot weevil; flea beetles; leafhoppers; spider mites; thrips	1-2 pints	1.25	3	7	7	24 hrs
Shallot	Aphids; thrips;	2.5 pints	1.56	2	7	3	24 hrs
Sorghum	Greenbugs	1.5 pints	1.0	2	7	7	12 hrs
Spinach	Aphids	1.5 pints	1.0	2	7	7	12 hrs
Squash, summer	Aphids; cucumber beetle; leaf miners; pickleworms; spider mites; cut worms; darkling ground beetle; leafhoppers; squash vine borer; thrips	2.8 pints	1.75	3	7	1	24 hrs
Squash, winter	Aphids	1.5 pints	1.0	3	7	1	12 hrs
Strawberry	Aphids; spider mites; Field crickets; lygus bugs; spittle bugs; thrips; potato leafhopper; strawberry leafroller; strawberry root weevil; white flies; thrips	1.5-3.2 pints	2.0	4	7	3	12 hrs

Сгор	Pests Controlled	Rate/Acre	Max. Single App. Rate (Ib ai/A)	Max. # of App. per year	Min. App. Interval (days)	Min. Pre-Harvest Interval (days)	Restricted Entry Interval (days)
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
Apply a full	coverage application to fruit	and foliage.					
Vetch	Alfalfa weevil larvae; aphids; armyworms; clover leaf weevil; grasshoppers; lygus bugs; pea aphid; potato leafhoppers; spider mites; spittlebugs; vetch buchid; omnivorous leaf tier; pea aphid; vetch buchid	1-2 pints	1.25	1 per cutting 2 applications per year	14	0	12 hrs
Watercress	Aphids	2 pints or 1.6 pints	1.25 or 1.0	5	3	3	24 hrs or 12 hrs
Do not app	ly when water is on the field.				•		
Do not irrig	ate until 24 hours after appli	cation.					
Wheat (Spring and Winter)	Cereal leaf beetle	1-1.5 pints					
	English grain aphids; young grasshoppers; greenbugs	1.5 pints	1.0	2	7	7	12 hrs

NON-AGRICULTURAL OUTDOOR USE SITES

Site	FL. OZ./Acre	Max. Single App. Rate	Use Pattern Limitations	Restricted Entry Interval (days)
Christmas tree plantations	82	3.2 lb ai/A	Maximum of 2 applications per year	12 hrs
Aerial application is prohibited.				
 Do not apply more than two applicati Minimum retreatment interval is 7 data 				
Fence rows/hedge rows (State and Federal Programs Only)	6	0.2439 lb ai/1000 ft²		
Ornamental and/or shade trees	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year; 10 day minimum re- treatment interval	12 hrs
Ornamental herbaceous plants	64	2.5 lbs ai/100 gal		12 hrs
Ornamental non-flowering plants	64	2.5 lbs ai/100 gal		
Ornamental woody shrubs and vines	64	2.5 lbs ai/100 gal	Maximum of 2 applications per year/growing cycle; 10 day minimum re- treatment interval	12 hrs

Do not apply more than two applications per year. Minimum retreatment interval is 10 days. •

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Site	FL. OZ./Acre	Max. Single App. Rate	Use Pattern Limitations	Restricted Entry Interval (days)
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

• For use in slash pine seed orchards in Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Texas only.

• Malathion may be used to control thrips from mid-December to mid-March.

- Do not apply more than two applications per year.
- Minimum retreatment interval is 7 days.
- 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).
- For airblast applications, user must turn off outward pointing nozzles at row ends and when spraying outer row.
- 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.
- Do not apply when the wind speed is greater than 10 mph.
- 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).
- Do not apply during temperature inversions.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: FYFANON® MALATHION INSECTICIDE 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).

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: (equal to or less than 5 gallons): Do not reuse or refill this container. Triple rinse (or equivalent). 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **Nonrefillable container (greater than 5 gallons):** Do not reuse or refill this container. Triple rinse (or equivalent). Triple rinse as follows: Empty the remaining contents into application equipment or 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 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. Then offer for reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONDITIONS OF SALE - LIMITED WARRANTY

AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. To the extent consistent with applicable law, the Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

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

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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