

5905-112 06-28-2010 C 1/6

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



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

June 28, 2010

Julie Mills
Registration Specialist
Helena Chemical Company
7664 Smythe Farm Road
Memphis, TN 38120

Dear Ms. Mills:

Subject: Submission of amended labeling per Use Deletion Guidance 12/30/08 and revised
May 2009 Malathion RED Label Table
EPA Reg. No. 5905-112
Submissions dated February 8, 2010

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

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

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

Regards,

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

Venus Eagle
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

ACCEPTED
6/28/10
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 5905-112

SPECIMEN LABEL

FYFANON®

ULV CONCENTRATE INSECTICIDE

ACTIVE INGREDIENTS:

Malathion: O,O-diethyl phosphorodithioate of diethyl
mercaptosuccinate.....91.00%
INERT INGREDIENTS:9.00%
TOTAL100.00%

One gallon contains 9.7 pounds of malathion

MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD,
COLLIERVILLE TENNESSEE 38012

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 (and for airblast application)
- Chemical-resistant apron (add for airblast application)

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.

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.

KEEP OUT OF REACH OF CHILDREN
CAUTION
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION
May be harmful if swallowed. Do not take internally. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, dust, or spray mist.
FIRST AID
Organophosphate
IF SWALLOWED:
<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have 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 or convulsing person.
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 poison center or doctor for further treatment advice.
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 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
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN
Contains an organophosphate that inhibits cholinesterase. This product may cause cholinesterase inhibition. Atropine is antidotal. 2PAM may be effective as an adjunct to atropine.
See Inside Panel for Additional Precautionary Statements and Directions For Use

EPA REG. NO. 5905-112 NET CONTENTS:
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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 runoff.

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.

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.

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.

STORAGE AND DISPOSAL

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

Pesticide Disposal: To avoid wastes, use all material in this container by application according to the 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.)

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

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). 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.

PRECAUTIONS AND RESTRICTIONS

- All ULV aerial formulations other than those intended for use as a Wide Area Mosquito Adulticide, must be packaged in closed mixing and loading systems.
- Not for residential use.
- Do not apply this product through any type of irrigation system.
- **Buffer Zones for Aerial Applications:** When making a ULV application with aerial application equipment, a minimum buffer zone of 50 feet must be maintained along any water body.
- **FYFANON® ULV CONCENTRATE** may cause spotting on automobile paint finish if prolonged exposure is permitted. Cars should not be sprayed directly. If accidental exposure does not occur, the car should be washed immediately.
- **FYFANON® ULV CONCENTRATE** can be effectively applied with conventional aircraft spray equipment by making a few minor modifications in the plumbing and boom assembly.

ULV EQUIPMENT REQUIREMENTS

PUMP

Use pumps capable of producing pressures of 40 to 50 psi. Install a bleed line of at least 3/16 inch in diameter on the high point of the impeller chamber to release trapped air. Bleed this line back to the top of the tank above the liquid level.

BY-PASS

A by-pass is required from the spray pump outlet to the spray pump inlet. This line must be equal in diameter to the pump outlet and must contain a valve controllable from the cockpit that will permit adjustments of boom pressure in flight. The by-pass commonly used to re-circulate FYFANON® ULV CONCENTRATE to the spray tank must be closed to avoid aeration of the insecticide.

BOOM AND NOZZLE PLACEMENT

The distance between the left and right outboard nozzles must be at least 3/4 of the wing span. The total number of nozzles used must be equally spaced across this span if the aircraft is flown at twenty feet or higher. Trailing edge booms are desirable. Place the nozzles on boom where pilot can readily see them to check any plugging or nozzles during spray operation. Attach a bleed line of at least 3/16 inch in diameter to the outer end of each boom and routed back to the top of the spray tank but above the liquid level. This line will bleed off pressures and assure sharp cut-off. If a nozzle is placed at each end of boom as many Ag Cat spray booms are assembled, this bleed line is not necessary.

NOZZLES

Use a minimum of 4 to 6 flat fan nozzles, such as Spraying Systems 8001, 80015 or 8002 for small aircraft such as Piper

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Pawnees and Stearmans. For aircraft operating at 150 mph or faster, use 10 to 14 flat fan nozzles, 8010 or 8015. Point nozzles straight downward on small aircraft and straight back for faster aircraft. Use 100 mesh screens with 8001, 80015, and 8002 nozzles and large-volume 50 mesh screen is to be used in spray systems. No screens are required for the 8010 or 8015 nozzles. Use diaphragm check valves on each nozzle to insure positive cut-off of spray during flight. Do not use cone nozzles. Rotary atomizers, commonly known as Mini-Spin nozzles, developed by the Plant Pest Control Division, USDA, can be substituted for the flat fan nozzles. Use the same flat fan nozzle tips as mentioned above when using the Mini-Spin nozzle.

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.

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

ADDITIONAL REQUIREMENTS FOR AERIAL APPLICATIONS

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 90% rotor diameter.

Aerial applicators must consider flight speed and nozzle orientation in determining droplet size.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

FYFANON® ULV CONCENTRATE is used undiluted for ultra-low volume aerial applications to control adult corn rootworm, beet leafhopper, cereal leaf beetle, cotton boll weevil, flies, and grasshoppers as specified below. Aerial applications should be made at altitudes of 20 to 25 feet.

CROP USE SITES							
Crop	Pests Controlled	Fl. Oz./ Acre	Max Single Application Rate (lb ai/A)	Max Number of Applications Per Year	Minimum Application Interval (days)	Minimum Pre-Harvest Interval (days) /Comments	Restricted Entry Interval (days/hours)
Alfalfa	Alfalfa caterpillars Armyworms, Western yellow striped, Alfalfa weevil larvae	8	0.61	2 per cutting	14	0 days. Apply when larvae are small.	12 hrs
						5 days. Apply when larvae are large or when foliage is dense.	
						5 days. Apply when day temperature is	

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						expected to be above 65F and when 50-70% of leaves show damage.	
	Beet armyworms	8				0 days. Apply when larvae are small. 5 days. Apply when larvae are large or when foliage is dense.	
	Grasshoppers	8				0 days.	
<i>Do not apply to alfalfa in bloom. Do not apply to seed alfalfa.</i>							
Clover	Grasshoppers	8	0.61	2 per cutting	14	0 days. Do not apply to clover in bloom.	12 hrs
Corn (Sweet)	Adult corn rootworms	4	0.61	2	5	5	3 days for detasseling 12 hrs for all other activities
Cotton	Early season insects, thrips, fleahoppers, leafhoppers	4-8	1.22	3	7	7	2 days
	Boll weevils	8-16 16					
	Grasshoppers	8					
	Lygus bugs	8-12 16					
Pasture & Rangeland	Grasshoppers	8-12	0.92	1 per cutting	7	1	12
Non-agricultural lands uncultivated areas/soil	Beet leafhoppers	8	0.928	—	—	—	—

**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 are to 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 Chemical Company (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

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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. 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.

To the extent consistent with applicable laws, 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 Chemical Company'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

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To the extent allowed by 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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