



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

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02 JAN 1997

Ms. Marla Biss
Regulatory Specialist
Cheminova, Inc.
Oak Hill Park
1700 Route 23, Suite 210
Wayne, NJ 07470

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dear Ms. Biss:

Subject: Product Name Change And Additional Uses
Cheminova Fyfanon 8 EC Insecticide
EPA Reg. No. 67760-4
Labeling Submitted August 27, 1996
Certification with Respect to Citation of Data,
EPA Form 8570-29 Dated January 2, 1997

The labeling amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you:

Submit one copy of your final printed label incorporating the following corrections before you release the product for shipment.

1. Correct the first statement under the human precautionary statements to read as stated below. This statement appeared on your label accepted July 12, 1996 for the subject product.

"Harmful if swallowed, inhaled or absorbed through skin."

2. Under the directions for "Adult Mosquito and Fly Control", specify the grain crops to be treated. Only those grain crops being supported for malathion may be listed.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended label constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

Sincerely,

William W. Jacobs, Ph. D.
Acting, Product Manager Team 14
Insecticide-Rodenticide Branch
Registration Division (7505C)

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ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 02 1997

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

67760-4

RECD EPA/OPP/DPD1

CHEMINOVA
FYFANON 8 EC INSECTICIDE

'96 SEP -4 A9 :49

Organophosphate Insecticide
Contains 8 lbs. Malathion per gallon

Active Ingredient:

Malathion *81.27%

Inert ingredient **18.73%

Total 100.0%

* O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate

** Contains xylene range aromatics.

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No. 67760-4

EPA Est. No. 39578-TX-1

NET CONTENTS _____ GAL. (_____ L)

IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR
NIGHT: 800-228-5635, EXT. 153.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if Swallowed. Avoid contact with skin. Avoid breathing of spray-
mist. Keep out of reach of children. Do not combine emulsifiable liquids
with wettable powders in the same spray tank unless previous use of the
materials being combined has proven them to be physically compatible.
Use only with adequate ventilation. Do not allow contact with treated
surface until sprays have dried.

Personal Protective Equipment:

Applicators and other handlers must wear: Long-sleeved shirt and long
pants, waterproof gloves and shoes plus socks.

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

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard(WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

User should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial uses, 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 washwaters.

This product 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 if bees are visiting the treatment area.

FIRST AID

If Swallowed- Call a Physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If Inhaled- Remove victim to fresh air. Apply artificial respiration if indicated.

If On Skin- Wash affected areas with soap and water.

If In Eyes- Flush eyes with plenty of water. Call a physician if irritation persists.

Note to Physician- This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

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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.

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 greenhouses, 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 the product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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, waterproof gloves and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

KEEP CHILDREN AND PETS OUT OF THE TREATED AREA UNTIL SPRAYS HAVE DRIED.

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STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal : 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. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Apply when pests first appear and repeat as necessary to maintain control. Apply the following recommended rates in sufficient water to thoroughly cover one acre. By ground, apply a minimum of 200 gallons per acre on stone fruits, a minimum of 200 gallons per acre on bush and vine fruits and a minimum of 2 gallons per acre on vegetable and field crops and a minimum of 20 gallons per acre on small fruits and tree crops. Use the designated amount in 100 gallons of water unless otherwise specified. Do not use in undiluted form.

CHEMIGATION: Refer to supplemental labeling entitled " APPLICATION THROUGH IRRIGATION SYSTEMS- CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed:

RECOMMENDATIONS FOR USE

ALFALFA and CLOVER: Use 1 1/2 pts. per acre to control Aphids, Leafhoppers, Grasshopper, Spider Mites, Lygus Bugs, Spittlebug, Alfalfa Weevil Larvae and Armyworms. For Spotted Alfalfa Aphid use 4/5 to 1 pint per acre by ground equipment and 1 to 1 1/5 pints per acre by airplane. Do not apply on alfalfa and clover in bloom. No time limitation.

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CHERRIES: Use 1-1 1/2 pints to control Aphids, Thrips, Spider Mites, Mealy Bugs, Codling Moth, Eye-Spotted Bud Moth and Orange Tortrix. For Cherry Fruit fly repeat application every 10 days. Injury may occur to certain varieties of sweet cherries particularly in the Northwest. Do not apply within 3 days of harvest.

BEANS: For the control of Aphids, Spider Mites, Thrips, Leafhoppers, Asparagus Beetle, Pea Weevil and Mexican Bean Beetle use 1 to 1 1/2 pints per acre by ground or air application. Do not apply within 1 day of harvest. Do not feed or graze treated foliage.

BERRIES: CANEBERRIES (blackberry, boysenberry, dewberry, loganberry, raspberry) **BLUEBERRY, CURRENT, GOOSEBERRY:** Use 1 1/2 to 2 pints per acre to control Aphids, Thrips, Spider Mites, Whiteflies, Leafhoppers, Rose scale, Lygus bugs, Spittlebugs, Leafrollers, Blackheaded Fireworms, Blueberry Maggot. Pre-harvest interval is one day; 3 days for gooseberry.

CITRUS: (Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangelos, and Kumquats): Use 1 to 2 pts. per 100 gals. of water to control Thrips. Do not apply when trees are in bloom. Do not apply within 7 days of harvest.

CORN: Aphids, Corn Rootworm Adults, Sap Beetles, Thrips. Young Grasshoppers: Use 1-1 1/4 pts. per acre. Do not apply within 5 days of harvest or forage use. Caution: injury may occur in the whorl and silk stages with emulifiable liquids.

COTTON: Use 1 pint per acre to control Cotton Aphid, Leafhoppers, White Flies, Cotton Leaf Perforator, Cotton Leafworm, Thrips, Fleahoppers, Boll Weevil, Lygus bugs, grasshopper. No pre-harvest interval.

GRASS: Grass Hay Pastures and Rangeland (barn grass, canary grass, fescue, orchard grass, red top, timothy and yellow foxtail): Aphids, Leafhoppers: Use 1-1 1/4 pt. Repeat application as necessary. Apply up to and including one day of harvest on grasses.

PASTURE AND RANGELAND: Aphids, Grasshoppers, Leafhoppers: Use 1 1/4 pt. per acre in sufficient water for good coverage. Or use 1 1/4 Pt. in 1 gallon of diesel fuel oil per acre by means of an airplane or a turbineblower type sprayer. May be applied on day of harvest or grazing.

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RICE : Grasshoppers, Rice Stink Bug: Use 10 ozs. per acre. Rice Leaf Miner: use 1 1/4 pts. per acre. Tadpole Shrimp (California only): 2 pts. 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. Restrict water spill from the treated field for 48 hours following application. Do not apply within 7 days of harvest.

SMALL GRAINS (Barley, Oats, Rye, Wheat): Armyworms, English Grain Aphids, Grasshoppers, Greenbugs: Use 1 to 1 1/4 pt. Do not apply within 7 days of harvest.

GRAIN STORAGE: (Corn, Barley, Oats, Rye, Wheat) For a residual wall, floor, and machinery, spray in grain elevators, in treating truck beds, and box cars. Before loading grain, apply 5 pts. per 25 gallons of water making thorough application. Before applying spray, clean elevators and box cars thoroughly. Remove and burn all sweepings and debris.

DROSOPHILA FLIES and DRIED FRUIT BEETLES: On or around cull fruit and vegetable dumps. Mix 7 1/2 pints in 100 gals. of water and apply as a drench, using 8-10 gals. of spray per 100 sq. ft. (for best results, dumps should not be over 18" deep). Do not feed treated fruit and vegetables.

FLY CONTROL OUTDOORS: For use around buildings, homes, yards. Apply spray at rate of 1 gal. per 1,000 sq.ft. on paint surfaces and 2 gals. per 1,000 sq.ft. on unpainted surfaces where flies alight or congregate.

<u>Amount of Spray</u>	<u>Amount of Malathion 8EC</u>
2 1/2 gal.	3/4 cup
12 gal.	1 1/4 pts.
100 gal.	1 1/4 gal.

ADULT MOSQUITO and FLY CONTROL: Apply 7.2 to 9.6 fluid ozs. per acre for control of adult flies and mosquitoes. Repeat as necessary. Can be applied to alfalfa, clover, pasture and range grass, grass hay, grain crops, beans, and non-agricultural lands. Do not apply within 7 days of harvest on grain crops; 5 days of harvest on corn; 1 day of harvest on beans. No time limitation on alfalfa, clover, pasture and range grass, grass and grass hay. Do not apply to alfalfa and clover in bloom if bees are visiting the area. Do not use on seed alfalfa. Treat shrubbery and vegetation where mosquitoes may be present.

Malathion 8EC can be applied as a dilute or low volume spray. To be applied only by trained personnel of Public Health Organizations, Mosquito Abatement Districts, Public Mosquito Control Programs and Professional Pest Control Operators. For low volume spray, apply 0.5 to 5 gallons of water per acre. For dilute recommendations, consult the label.

Repeat applications should be made as necessary unless otherwise specified.

UNDILUTED SPRAY DROPLETS OF MALATHION WILL PERMANENTLY DAMAGE AUTOMOBILE PAINT. Cars should not be sprayed. If accidental exposure does occur, the car should be washed immediately.

FLOWERS, ORNAMENTALS and SHADE TREES: Follow general directions using 1 pint per 100 gallons of water in hydraulic sprayers or 1 gallon per 100 gallons in a mist blower (follow mist blower manufacturer's directions for dilutions based on hydraulic sprayer recommendations). Aphids on elms, linden, maple; European Pine Shoot Moth on pines; Japanese Beetle (adults) on roses, flowers, flowering ornamentals; Leaf Hoppers on hawthorn, poplar, willow; Mealybugs and White Flies on azalea, rhododendron, laurel, andromeda, taxus; Thrips (exposed) on roses and flowers; Tarnished Plant Bug on ornamental fruit trees and flowers; Sawflies on ash, larch, pines, spruce; Lacebug on rhododendron, azalea, sycamore.

Use 1 1/4 pints per 100 gallons for the following insects: Leaf Miner on birch, boxwood (apply early to mid-May). Repeat in 10 days. Tent Caterpillars on flowering ornamentals. Apply when scale crawlers appear on the following ornamentals: Oak Kermes on oak, Fletcher Scale on taxus, juniper, arborvitae; Florida Juniper Scale on ornamental evergreens; Eucymus Scale on pachysandra; Pine Needle Scale on pines.

WARRANTY

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CHEMINOVA. All such risks shall be assumed by the user.

CHEMINOVA warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages. CHEMINOVA makes no other express or implied warranty of FITNESS or MERCHANTABILITY.

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