



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

S 54 2874

AUG 11 1998

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Linda D. Pearce
Registration and Labeling Technician
Regulatory Affairs
Wilbur-Ellis Company
191 West Shaw Ave., Suite 107
Fresno, CA 93704-2876

Dear Ms. Pearce:

Subject: Malathion 8 Spray
EPA Reg. No. 2935-83
Labeling Submitted March 10, 1998

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. The following precautionary statements are inappropriately placed under the "Statement of Practical Treatment": "Harmful if swallowed. Avoid breathing dust. May cause irritation of nose, throat or skin. Avoid contact with eyes, skin and clothing".

Relocate and combine these statements with your current statements under the "Precautionary Statements" heading and correct the reference to dust to read "spray mist."

This labeling comment was previously transmitted to you in our letter dated March 5, 1997.

2. As stated in item 5 of our March 5, 1997 letter, remove the use restriction pertaining to broadcast use from the adult mosquito use.

3. Reinstate the following aquatic use restriction in the directions for use on the aquatic food crop, rice as it appeared on your label accepted March 5, 1997 for the subject product.

"Broadcast use only over intermittently flooded areas.

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Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially."

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.

The additional information submitted with your letter of March 10, 1998 is adequate to support the addition of the crop, pumpkin to the subject product labeling. If you wish to pursue registration of this additional crop, submit five copies of your revised labeling showing the added use on pumpkins with a pre-harvest interval of three days and incorporating the corrections of our March 5, 1997 letter. Though the addition of pumpkins was the subject of your letter mentioned above, your revised labeling received with your letter did not include this additional crop.

Sincerely,

M.A.M.

Marilyn A. Mautz
Biologist
Insecticide-Rodenticide Branch
Registration Division (7504C)

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

CAUTION: Harmful if Swallowed. Avoid contact with skin. Wash thoroughly after using. Avoid breathing of spray mist. Avoid contamination of feed and food stuff. Keep out of reach of children.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA Chemical-resistance category selection chart.

Applicators and other handlers must wear: A) Long-sleeved shirt; B) Long pants; C) Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton; D) Shoes plus socks.

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

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. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. 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.

CHEMICAL AND PHYSICAL HAZARDS

Keep container closed and away from heat and open flame. 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.

USER SAFETY RECOMMENDATIONS

Users should: A) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. B) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. C) 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.

STORAGE AND DISPOSAL

- PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal.
- PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- CONTAINER DISPOSAL:** 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.
- STORAGE:** Store in original container only and keep sealed. Store in closed storage areas. Use caution when moving, opening, closing or pouring.



IDEAS TO GROW WITH®

**MALATHION
8 SPRAY
ORGANOPHOSPHATE**

ACTIVE INGREDIENTS:

Malathion® 81.2%

INERT INGREDIENTS: 18.8%

Contains Xylene Range Aromatic Solvent TOTAL 100.00%

*O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate

EPA Reg. No. 2935-83-ZA

EPA Est. No. 2935-CA-01

KEEP OUT OF REACH OF CHILDREN!

CAUTION:

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Induce vomiting by sticking finger down throat. Never give anything by mouth to an unconscious person. Get medical attention.

If In Eyes: Wash eyes with plenty of clear water for at least 15 minutes. Get medical attention.

Harmful if Swallowed: Avoid breathing dust. May cause irritation of nose, throat or skin. Avoid contact with eyes, skin and clothing.

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

NOT FOR USE OR STORAGE IN OR AROUND THE HOME

ACCEPTED with COMMENTS
in EPA Letter Dated:

AUG 11 1998

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

2935-83

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

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.

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), notification to workers 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) 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: A) Coveralls; B) Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton; C) Shoes plus socks.

See Attached Use Label For Specific Crop
Recommendations

NOTICE: The statements made on this label are believed to be true and accurate, but because of conditions of use which are beyond our control, WILBUR-ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guaranty or representation, expressed or implied, concerning this material or the uses thereof, except in conformity with the statements on the label. Neither WILBUR-ELLIS COMPANY nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to the other person from handling, storage or use of this material, not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

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In Case of Emergency,

Call CHEMTREC: (800) 424-9300

WILBUR-ELLIS COMPANY
P.O. BOX 16458 - FRESNO, CA 93755

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Malathion 8 Spray

ACTIVE INGREDIENTS:	
Malathion	81.2%
INERT INGREDIENTS:	18.8%
Xylene Range Aromatic Solvent	8.8%
TOTAL	100%

*O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate

E.P.A. Reg. No. 2935-83-ZA

EPA Est. No. 2935-CA-01

KEEP OUT OF REACH OF CHILDREN

CAUTION:

Observe Precautions on Container Label.
NOT FOR USE OR STORAGE IN OR AROUND HOME.

DIRECTIONS FOR USE

Apply specified rate per acre in sufficient water to thoroughly cover plant surfaces with ground driven equipment or aircraft. When applied by air use a minimum of 5 gallons of water per acre — by ground a minimum of 10 gallons per acre.

RECOMMENDATIONS FOR USE

ALFALFA & CLOVER: Alfalfa weevil larvae, aphids, armyworms, clover leaf weevil, grasshoppers, lygus bugs, pea aphid, potato leafhoppers, spider mites, spittlebug, spotted alfalfa aphid, vetch bruchid - use 1 to 1-1/2 pints. Use higher rate for armyworm control. For hard to control insects, use up to 2 pints per acre. 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. Do not apply within 7 days of harvest.

APRICOTS, AVOCADOS, CHERRIES, FIGS, NECTARINES, PEACHES and PECANS: Use 1 to 1-1/2 pts. per 100 gallons. of water to control APHIDS, THRIPS, SPIDER MITES, MEALYBUGS, COOLING MOTH, EYE-SPOTTED MOTH, PLUM CURCULIO, CHERRY FRUIT FLY, PEAR PSYLLA, SCALE CRAWLERS, LEAFROLLERS and ORANGE TORTRIX. For control of DRIED FRUIT BEETLES and VINEGAR FLIES on figs apply 2-1/2 pts. plus 1 to 2 gallons. of unsulfured molasses per acre. For SCALE on peaches apply to completion of hatching, about last of June. For CHERRY FRUIT FLY repeat applications every 10 days. Injury may occur in summer sprays to certain varieties of sweet cherries particularly in the Northwest and fruit spotting may occur on nectarines. Do not apply within 3 days of harvest on cherries and figs; within 7 days on apricots, avocados, nectarines & peaches. No limitation on Pecans.

BEEETS, DANDELIONS, EGGPLANT, ENDIVE, GARLIC, LEEKS, PARSLEY, PARSNIPS, PEAS, PEPPERS, SALISFY, SHALLOTS, SPINACH, SWISS CHARD & WATERCRESS: Use 1/2 to 1 pt. per acre to control APHIDS, SPIDER MITES, THRIPS, LEAFHOPPERS, ASPARAGUS BEETLE, PEA WEEVIL, and MEXICAN BEAN BEETLE. Do not apply within 3 days of harvest on Garlic, Eggplant, Leeks, Peas, Peppers and Shallots; within 7 days on Beets, Dandelions, Endive, Parsnips, SALISFY, Swiss Chard, Spinach, Watercress and within 21 days on Parsley. Do not feed or graze treated peas.

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 crop.

BERRIES, CANEBERRIES (Blackberries, Boysenberries, Dewberries, Loganberries and Raspberries): Use 1-1/2 to 2 pts. per acre to control APHIDS, THRIPS, SPIDER MITES, WHITE-FLIES, LEAFHOPPERS, ROSE SCALE, LYGUS BUGS, SPITTLEBUGS, LEAFROLLERS, BACK-HEADED FIREWORMS and STRAWBERRY ROOT WEEVIL. Do not apply within 1 day on Caneberries.

CABBAGE, BROCCOLI, BRUSSELS SPROUTS, KALE, MUSTARD GREENS, TURNIPS: Use 1 to 2 pts. per acre to control APHIDS, IMPORTED CABBAGEWORM & CABBAGE LOOPER. Do not apply within 7 days of harvest on Brussels Sprouts, Cabbage, Kale, Mustard Greens and within 3 days on Broccoli and Turnips.

SQUASH: For control of APHIDS, LEAFHOPPERS, PICKLEWORM, SPIDER MITES, CUCUMBER BEETLES, use 1-1/2 to 1-3/4 pints per acre by ground or air application. Do not apply within 1 day of harvest on squash.

CELERY & CUCUMBERS: Use 1-1/2 pts. per acre to control APHIDS, SPIDER MITES, and CUCUMBER BEETLE. Do not apply within 7 days of harvest on Celery or within 1 day of harvest on Cucumbers.

CITRUS: (GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGERINES, TANGELOS & KUMQUATS): Use 1 to 2 pts. per 100 gals. of water to control APHIDS & SCALE CRAWLERS. Use 2-1/2 pts. per 200 gals. of water to control THRIPS. Do not apply when trees are in bloom. Do not apply within 7 days of harvest.

COTTON: Use 1-4 pts. per acre to control BOLLWEEVILS, COTTON APHID, LEAFHOPPERS, WHITE FLIES, COTTON LEAF PERFORATOR, COTTON LEAFWORM, THRIPS, and LYGUS BUGS. In California do not use more than 1 pt. per acre. No time limitation. Do not feed or graze treated crop.

GRAPES: Use 1-1/2 to 2-1/2 pts. per acre to control GRAPE LEAFHOPPERS, MEALYBUGS and SPIDER MITES. Injury may occur to Ribier, Italia, Cardinal and Almeria grape varieties when Malathion is applied after the clusters appear. Do not apply within 3 days of harvest.

LENTILS: (Not for use in California) Use 1 pint per acre to control APHIDS. Do not apply within 3 days of harvest. Do not feed or graze treated crop.

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RECOMMENDATIONS FOR USE (cont.)

LETTUCE: Use 1 to 2 pts. per acre to control APHIDS and LEAFHOPPERS. Do not apply within 7 days on Head Lettuce and within 14 days on Leaf Lettuce.

MUSHROOMS: Use 1-1/2 pts. per 130 gals. of water per acre or 1-1/4 tbsp. in 3 gals. water per 1000 sq. ft. of bed to control SPIDER MITES, PHORID FLIES and SCIARID FLIES. Make thorough applications as soon after picking as possible. Repeat applications as necessary, usually twice a week. Do not apply within 1 day of picking.

ONIONS: Use 1-1/2 pts. per acre to control THRIPS. Do not apply within 3 days of harvest.

ORNAMENTALS: (Not for use in California) Use 1 pt. per acre to control APHIDS, SPIDER MITES, WHITEFLY, MEALYBUGS, THRIPS, and LEAFHOPPERS. Use 1-1/3 pt. per acre to control TENT CATERPILLAR, JUNIPER SCALE, FLETCHER SCALE, FLORIDA RED SCALE, PINE LEAF SCALE, and OAK KERMES. Use 1-3/4 pt. per acre to control MONTEREY PINE SCALE and SOFT SCALE. Repeat as necessary. To control listed scales — apply thorough full coverage spray at time scale crawlers have settled on foliage. Do not use on Boston, Maidenhair and Pteris Ferns, and some species of Crassula.

PEPPERMINT & SPEARMINT: Use 1 pt. per acre to control APHIDS, SPIDER MITES, FLEA BEETLE ADULTS and LEAFHOPPERS. Do not apply within 7 days of cutting.

POTATOES & TOMATOES: Use 1 to 1-1/2 pts. per acre to control APHIDS, LEAFHOPPERS, FALSE CHINCH BUG and SPIDER MITES. Do not apply within 1 day of harvest on Tomatoes and no limitation on Potatoes. Calif. only: For the control of TOMATO FRUITWORM use 3-1/2 pts. per acre on Tomatoes. When the 3-1/2 pt. rate is used, do not apply within 5 days of harvest.

RADISH & HORSE RADISH: For control of APHIDS, DIAMONDBACK MOTH, FLEA BEETLE, LEAFHOPPERS. Use 2 pints per acre. Do not apply within 7 days of harvest.

RICE (Grain Form): Use 1-1/2 pts. per acre to control RICE LEAF MINER. Make first application shortly after the first rice plants appear on the surface of the water. Do not apply within 7 days of harvest.

SMALL GRAINS (Barley, Oats, Rye & Wheat): Use 1-1/4 pts. per acre to control APHIDS and ARMYWORMS. Do not apply within 7 days of harvest.

For residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ships' holds before loading grain, apply 3/4 gallon of Wilbur-Ellis Malathion 8 Spray per 25 gallons of water making thorough application. Before applying spray, clean elevators and box cars thoroughly. Remove and burn all sweepings and debris. When applying in ships' holds, wear protective clothing to minimize skin exposure. Wear a respirator approved by NIOSH for liquid malathion.

WALNUTS: For control of APHIDS, MITES, WALNUT HUSK FLY, use 4 to 12-1/2 pints per acre. No time limitation.

MOSQUITO CONTROL

MOSQUITO LARVAE: Apply 8 fluid ozs. per acre to standing water (intermittently flooded areas, stagnant water, temporary rain pools). 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.

ADULT MOSQUITO & FLY CONTROL: Apply 7.2 to 9.6 fluid ozs. per acre for control of ADULT FLIES and MOSQUITOS. Repeat as necessary. Can be applied to alfalfa, clover, pasture and range grass, grass hay, grain crops (barley, oats, rye and wheat), beans, rice and non-agricultural lands. Do not apply within 7 days of harvest on grain crops (barley, oats, rye and wheat) and rice; 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. Do not use on seed alfalfa. Treat shrubbery and vegetation where mosquitoes may result. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated. 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.

WILBUR-ELLIS MALATHION 8 SPRAY can be applied as a dilute or low volume spray. 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.

To be applied only by trained personnel of Public Health Organizations, Mosquito Abatement Districts, Public Mosquito Control Programs and Professional Pest Control Operators.

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