1015-66

1/7/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

5568937

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Roberta M. Holt Secretary Douglas Products and Packaging Company 15**6**0 E. Old 210 Hwy. Liberty, MO 64068

Dear Ms. Holt:

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Subject: Douglas Malathion 57 WE EPA Reg. No. 1015-66 Labeling Submitted September 13, 1999

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. In the section headed, PERSONAL PROTECTIVE EQUIPMENT, add the sentences cited below as the first two sentences in this section. Refer to item 1.a. in the previous letter of June 18, 1999.

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

2. Correct the statement in item B. in the PERSONAL PROTECTIVE EQUIPMENT section by adding the word, "or" between the words, Laminate and Butyl so that the statement reads as cited below.

B. Chemical resistant gloves such as Barrier Laminate, or Butyl Rubber, or Nitrile Rubber, or Viton.

3. In the last sentence of the STORAGE AND DISPOSAL section, correct the word, dumping to burning so that the sentence reads as cited below.

GENERAL: Consult Federal, State or local authorities for approved alternative procedures such as open burning.

4. Add the designation, organophosphate and place it either near the product name or immediately under the heading, FIRST AID. Refer to the enclosed copy of 40 CFR section 156.206 (c) regarding this requirement.

5. Correct the front panel Spanish warning statement to read as specified in the attached copy of section 156.206(e).

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.

Your Confidential Statement of Formula (CSF) dated September 10, 1999 is acceptable. subject to the correction cited below. Please submit a corrected CSF for our files.

The upper and lower limits for the components reported in items 14 a. and 14 b. are reversed.

Sincerely,

Mum

Marilyn A. Mautz Biologist Insecticide-Rodenticide Branch Registration Division (7504C) 20+21

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ACCEPTED with COMMENTS in EPA Letter Dated:

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ndar the New Yol Incerticide.

PRECAUTIONARY STATEMENTS **HAZARDS TO HUMANS** WARNING

Harmful if swallowed, inhaled or absorbed through the skin. Causes eye 101irritation. May be a skin sensitizer. Keep container closed, Use with adequate ventilation. Avoid breathing spray mist, Avoid contact with skin or clothing. Wash skin thoroughly after handling. Remove and wash contaminated clothing before reuse

PERSONAL PROTECTIVE EOUIPMENT

Applicators and other handlers must wear: A. Long-sleeved shirt and long pants.

- B. Chemical resistant gloves such as Barrier Laminate, Butyl Rubber,
- or Nitrile Rubber, or Viton.
- C. Shoes plus socks. D. Protective evewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning or maintaining PPE. If no such instructions for washable, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

User Should

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial use, 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.

PHYSICAL OR CHEMICAL HAZARDS

Flammable: Do not use or store near heat sources or open flame. Do not use in the vincinity of pilot lights.

STORAGE AND DISPOSAL

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

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. or by other approved state and local procedures.

| GENERAL: Consult Federal, State or local authorities for approved alternativ |
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| procedures such as limited open dumping. |
| NOTE TO PHYSICIANS: In case of emergency, call |
| CHEMTREC - (800) 424-9300. |

KEEP FROM FREEZING

ide, and time dide Act as amended, for the pesticide registered under LF 5-66 ALATHI 7 - WEMULSIFIABLE CONCENTRATE PREMIUM GRADE ACTIVE INGREDIENTS: Malathion (0.0-dimethyl dithiophosphate of FORMULATED WITH FyFANON® TECHNICAL INSECTICIDE

INERT INGREDIENTS: TOTAL..... 100.0

PREMIUM GRADE MALATHION

THE

CONTAINS PETROLEUM DISTILLATES

*Equivalent to 5 lbs, of premium grade malathion per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING ! / AVISO !

PRECAUCION AL USUARIO: Si usted no lee ingles, no use esto producto hasta que la etiqueta le haya sido explicada ampliamente.

FIRST AID

IF SWALLOWED: Do not induce vomiting. Get medical attemont

IF IN EYES: Immediately flush eyes and skin with plents of water for atleast 5 minutes. Call a physician.

IF ON NKIN: Immediately wash with plenty of soap and water while removing contaminated clothing and shoes. Ge menical attention

IF INITALED. Remute victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth Get medical actorities

Note to Physicians: This product is a cholinesterase inhibitor. Arropine is amidotal, 2-PAM may be effective as a adjunct to atropine.

SEZ SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 1015-66

Net Contents

Gallon

EPA Est. No. 1015-MO-4

DOUGLAS PRODUCTS & PACKAGING Liberty, Missouri 64068

DIRECTIONS FOR USE

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

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

Do not apply this product in such a manner as to directly or thru drift exposed workers or other persons. The area being treated must be vacated by unprotected persons.

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 this product that are covered by the Workers 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) or 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

- * Chemical resistant gloves, such as Barrier Laminate, or Butyl Rubber, or Nitrile Rubber, or Viton
- * Shoes plus socks
- * Protective eye wear

DISCLAIMER

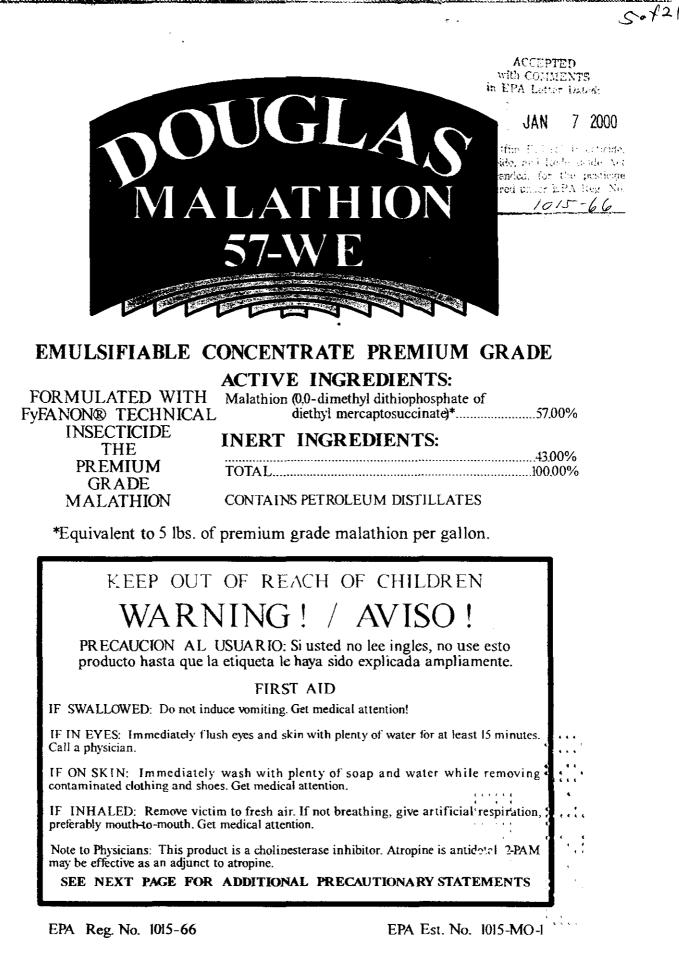
CONDITIONS OF SALE: This product is sold subject to and buyer and user are deemed to have accepted the terms contained in the CONDITION OF SALE AND WARRANTY, DIRECTIONS FOR USE AND PRECAUTIONARY STATEMENTS.

WARRANTY STATEMENT

DOUGLAS PRODUCTS & PACKAGING 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, DOUGLAS PRODUCTS & PACKAGING MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANT ABILITY OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY.

LIMITATION OF LIABILITY

In no case shall DOUGLAS PRODUCTS & PACKAGING or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. No claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed. USER ASSUMES THE RISK OF ANY USE CONTRARY TO LABEL INSTRUCTIONS.



DOUGLAS PRODUCTS & PACK AGING

1550 E. Old 210 Hwy. Liberty, Missouri 64068-9459



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AGRICULTURAL USE REQUIREMENTS

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* Protective eyewear

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LIMITATION OF LIABILITY

In no case shall DOUGLAS PRODUCTS & PACKAGING or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. No claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed. USER ASSUMES THE RISK OF ANY USE CONTRARY TO LABEL INSTRUCTIONS.

In case of an emergency endangering life or property involving this product, call CHEMTREC (800) 424-9300 day or night

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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.

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

Do not apply this product in such a manner as to directly or thru drift exposed workers or other persons. The area being treated must be vacated by unprotected persons.

Vegetables: Apply in a minimum of 30 gallons by ground equipment or 5 gallons by air equipment unless otherwise specified. Best results are obtained with uniform coverage.

| | Pests | • | Interval (Days) Between Last |
|-------------------|---------------------|-----------------------|----------------------------------|
| Сгор | Controlled | Rate/A | Application and Harvest |
| Beans | Aphids | | |
| ~Green Beans | Bean leaf beetles | | |
| ~Lima Beans | Blister beetles | 2 pts | Do not apply within 1 day |
| ~Navy Beans | Cucumber beetles | | of harvest. |
| ~Red Kidney Beans | Potato leafhoppers | | |
| ~Snap Beans | Lygus bugs | · | Do not feed or graze by |
| ~Wax Beans | Japanese beetle | | livestock. |
| ~Cowpeas | Mexican bean beetle | 1 1/2 - 2 pts | |
| ~Blackeye Peas | Red Spider mites | 1 1/2 pts | 1 |
| Dry Beans | | 1 1/2 - 2 pts ground | Do not apply within1 day of |
| ~California and | Lygus bugs | 1 1/2 pts (air) in 10 | harvest. Do not feed or graze |
| Northwest only | | gallons of water | by livestock. |
| Beets | | | Do not apply within 7 days |
| ~Garden | Aphids | 1 1/2 - 2 pts. | of harvest if tops are to be |
| ~Table | | | used as food or feed. |
| Broccoli | Aphids | | |
| | Cabbage looper | 1 - 2 pts. | Do not apply |
| | Imported | | within 3 days |
| | cabbageworm | | of harvest. |
| Brussels Sprouts | Aphids | 1 - 2 pts. | Do not apply within 7 days |
| | | | of harvest, |
| Cabbage | Aphids | | Do not apply within 7 days of |
| | Cabbage looper | 1 - 2 pts. | harvest. For control of cater- |
| | Imported | | pillars on summer and fall |
| | cabbageworm | | plantings in the South, begin |
| | Diamondback moth | | when true leaves appear. On |
| | Webworm | 2 pts. | other plantings, and for control |
| | | | of other insects, begin when |
| | | | insects appear. |
| Cauliflower | Aphids | 1 - 2 pts. | Do not apply within 7 days |
| | Diamondback moth | 2 - 4 pts. | of harvest. |

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| | Pests | | Interval (Days) Between Last |
|--------------|-------------------|----------------|----------------------------------|
| Crop | Controlled | Rate/A | Application and Harvest |
| Celery | Aphids | | To be applied to fresh leaves |
| ~Anise | Spider Mites | 1 1/2 pts. | and stalks only. Do not use on |
| | | | crops grown for seed and oil. |
| | | | Do not apply within 7 days |
| | | | of harvest. |
| Collards | Aphids | 1 1/2 - 2 pts. | Do not apply within 7 days of |
| | Harlequin cabbage | | harvest. For control of cater- |
| | bug | 1 pt. | pillars on summer and fall |
| | | | plantings in the South, begin |
| | | | when true leaves appear. On |
| | | | other plantings, and for control |
| | | | of other insects, begin when |
| | | · · | insects appear. |
| Cucumbers | Aphids | | Do not apply to cucumbers |
| | Pickleworms | 1 1/2 - 2 pts. | unless plants are dry. |
| | Spider mites | | Do not apply within |
| | Squash vine borer | 3 pts. | 1 day of harvest. |
| | Cucumber beetle | | |
| | Leaf miner | 2 pts. | |
| Dandelion | | | Do not apply within 21 days of |
| ~Parsley | | | harvesting parsley or within 7 |
| ~Parsnip | Aphids | 1 1/2 - 2 pts. | days of harvesting dandelion, |
| ~Swiss Chard | | | parsnip, swiss chard or |
| ~Watercress | | | watercress. |
| Eggplant | Aphids | | Do not apply |
| | Spider mites | 1 pts. | within 3 days |
| | Lacebugs | 3 pts. | of harvest. |
| Endive | Aphids | | Do not apply within 7 days |
| | Spider mites | 1 1/2 - 2 pts. | of harvest. |
| Garlic | Aphids | | Do not apply within 3 days |
| ~Shallots | Thrips | 1 1/2 - 2 pts. | of harvest. |
| Hops | Aphids | | Do not apply within 10 days |
| | Spider mites | 1 pt. | of harvest. |
| Kale | Aphids | | Do not apply within 7 days of |
| | Cabbage looper | 1 - 2 pts. | harvest. For control of cater- |
| | Imported | | pillars on summer and fall |
| | cabbageworm | | plantings in the South, begin |
| | Diamondback moth | | when true leaves appear. On |
| | Webworm | 2 pts. | other plantings, and for control |
| | | | of other insects, begin when |
| | | | insects appear. |

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| | Pests | | Interval (Days) Between Last | |
|---------------|------------------------|----------------------|----------------------------------|--|
| Crop | Crop Controlled Rate/A | | Application and Harvest | |
| Kohlrabi | Aphids | 1 - 2 pts. | Do not apply | |
| | Cabbage looper | | within 7 days | |
| | Imported | | of harvest. | |
| | cabbageworm | 2 pts. | | |
| | Diamondback moth | | | |
| | Webworm | | | |
| Leeks | Aphids | 1 1/2 - 2 pts. | Do not apply | |
| | Onion maggot flies | 2 1/2 pts. | within 3 days | |
| | Thrips | 3 pts. | of harvest. | |
| Lentils | Cowpea aphid | | Do not apply within 3 days of | |
| | Pea aphid | 1 1/2 pts. | harvest. Do not feed or graze | |
| | | | by livestock. | |
| Lettuce | Aphids | • | Do not apply within 7 days | |
| ~Head | Leafhoppers | 2 pts. | of harvesting head lettuce or | |
| ~Leaf | Spider mites | | within 14 days of harvesting | |
| | Cabbage looper | 3 pts. | leaf lettuce. | |
| Mushrooms | Mites | 2 1/2 pts in 130 | Make thorough applications as | |
| | Phorid | gallons of water; or | soon after picking as possible. | |
| | Sciarid flies | 2 tablespoons in | Repeat applications as | |
| | | 3 gallons of water | necessary, usually twice a | |
| | 1 | per 1,000 square | week. Do not apply within | |
| | | foot of bed. | 1 day of harvest. | |
| Mustards | Aphids | | For control of caterpillars on | |
| ~Greens | Cabbage looper | 2 pts. | summer and fall plantings in the | |
| | Imported | | south, begin when true leaves | |
| | Cabbageworm | | appear. On other plantings, and | |
| | Flea beetles | 1 1/2 - 2 pts. | for control of other insects, | |
| | | | begin when insects appear. Do | |
| | | | not apply within 7 days of | |
| | | | harvest. | |
| Okra | Aphids | 1 1/2 pts. | Do not apply within 1 day of | |
| | Japanese beetle | 2 pts. | harvest. Make no application | |
| | | 1 | after pods start to form. | |
| Onions | Onion maggots | 1 1/2 - 2 1/2 pts. | Do not apply within 3 days | |
| ~Bulb & Green | Onion thrips | 1 1/2 - 2 pts. | of harvest. | |
| Peas | Aphids | 1 1/2 - 2 pts. | Do not apply within 7 days of | |
| | Grasshoppers | 2 pts. | harvest. Do not feed or | |
| | Leafhoppers | 1 1/4 - 4 pts. | graze by livestock. | |
| Peppermint | Aphids | | Do not apply | |
| ~Spearmint | Flea beetles | 1 1/2 pts. | within 7 days | |
| - | Leafhoppers | | of harvest. | |
| | Spider mites | | 1 | |
| | | | | |
| Peppers | Aphids | 1 - 2 1/2 pts. | Do not apply within 3 days | |

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| | Pests | 1 | Interval (Days) Between Last |
|-----------------|--|--------------------|---|
| Сгор | Controlled | Rate/A | Application and Harvest |
| Potatoes | Aphids | | May be applied |
| ~White | Grasshoppers | 2 pts. | on the day of harvest. |
| ~Red | Leafhoppers | | |
| | False chinch bugs | 1 1/2 pts. | |
| | mealybugs | 2 - 2 1/2 pts. | |
| Radish | Aphids | 1 1/2 - 2 pts. | Do not apply within 7 days |
| ~Horseradish | , | | of harvest. |
| Rice | Rice leaf miner | 2 1/2 pts. | Make first application shortly after the first rice blades appear on the surface of the water and repeat if necessary. Do not apply within 7 days of harvest. Broadcast use for Rice leaf miner and Rice stink bugs only over intermittently flooded areas. Applications may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially. |
| | Rice stink bugs | 1 - 1 1/2 pts. | Apply by airplane in 2 gallons of water per acre during the early milk and dough stage of growing rice. Repeat as needed. Do not apply within 7 days of harvest. |
| Rutabaga | Aphids | 1 1/2 pts. | Do not apply within 3 days of harvest. |
| Spinach | Aphids | 2 pts. | Do not apply within 7 days of harvest. |
| Squash | Aphids Leaf miners Spider mites Pickleworm Cucumber beetles Squash vine borer | 2 pts. 3 pts. | Do not apply to squash unless plants are dry. Do not apply within 1 day of harvest. |
| Strawberries | Aphids | 10 p.s. | |
| ~Excluding Soil | Spider mites | 1 1/2 pts. | |
| incorporated | Field Crickets | 1 na pio. | |
| incorporated | Lygus bugs Spittlebugs Thrips Potato Leafh oppe r | 1 1/2 - 3 pts. | Do not apply within 3 days of harvest. |
| | Strawberry Leafroller Strawberry root weevil Whiteflies | 1 1/2 - 2 1/2 pts. | |

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| Сгор | Pests Controlled | Rate/A | Interval (Days) Between Last Application and Harvest |
|----------------|---------------------|----------------|---|
| Sweet Corn | Japanese beetle | 2 pts. | Do not apply within 5 days of harvest. Injury may occur in the whorl or to the silks. |
| Sweet Potatoes | Leafhoppers | 1 1/2 - 2 pts. | Do not apply |
| | Morninglory leaf | | within 3 days |
| | miner | 2 1/2 - 3 pts. | of harvest. |
| Tomatoes | Aphids | 1 1/2 pts. | Do not apply |
| | Drosophila | 2 1/2 pts. | within 1 day |
| | Spider mites | 1 1/2 pts. | of harvest. |
| | Armyworms | | Do not apply |
| | Fruitworms | 2 3/4 pts. | within 3 days |
| | (California Only) | | of harvest. |
| Turnip | Aphids | 1 - 2 pts. | For control of caterpillars on |
| | Cabbage looper | | summer and fall plantings in the |
| | Imported | | South, begin when true leaves |
| | cabbageworm | | appear. On other plantings, and |
| | | | for control of other insects, begin |
| | | | when insects appear. Do not |
| | | | apply within 7 days of harvest |
| | | | if tops are to be used for food or |
| | | | feed. |

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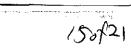
| | Pests | Rate/ | | Interval (Days) Between Last |
|----------|---|------------|------------|------------------------------|
| Crop | Controlled | 100 gals. | Rate/A | Application and Harvest |
| Apricots | Aphids | | | Do not apply |
| | Codling moth | | | within 7 days |
| | European fruit | | 1 | of harvest. |
| | lecanium | 1 1/2 - 2 | 4 1/2 - 6 | |
| | Orange tortrix | pts. | pts. | |
| | Soft brown scale | |] | |
| | Terrapin scale | | | |
| | The rates for use on apricots is based on a standard of 300 gal./acrea dilute | | | |
| | spray for mature tree | S. | | |
| Avocados | Greenhouse thrips | | | Do not apply |
| | Latania scale | | | within 7 days |
| | Omnivorous looper | 1 1/2 pts. | 7 1/2 pts. | of harvest. |
| | Orange tortrix | | | |
| | Soft brown scale | | | |
| | The rates for use on avocado is based on a standard of 500 gal./acre dilute | | | |
| | spray for mature tree | | | - |

| Pests CropRate/ ControlledInterval (Days) Between Last Application and HarvestcberriesAphidsRate/AApplication and HarvestcberriesAphidsDo not apply within 1 dayvberriesJapanese beetle1 1/2 pts.3 pts.anberriesLeafhoppersInterval (Days) Between Last |
|---|
| kberriesAphidsDo not applysenberriesRose scale chaferswithin 1 day/berriesJapanese beetle1 1/2 pts.3 pts.anberriesLeafhoppersin the second |
| senberriesRose scale chaferswithin 1 day/berriesJapanese beetle1 1/2 pts.3 pts.of harvest.anberriesLeafhoppers1 1/2 pts.3 pts.of harvest. |
| vberries Japanese beetle 1 1/2 pts. 3 pts. of harvest. anberries Leafhoppers |
| anberries Leafhoppers |
| |
| |
| pberries Mites |
| Thrips |
| The rates for use on brambles are based on a standard of 200 gal./acre dilute |
| spray. |
| berries Blueberry maggots 1 pt. plus For use in the Northeast only. |
| 1 1/2 qts. Apply in 100 gallons of water |
| Staley's - per acre. Do not apply within |
| Sauce 8 days of harvest. |
| Base #7 |
| Cherry fruitworm 1 pt. 2 pts. Do not apply within 1 day |
| of harvest. |
| Cranberry fruitworm 1 pt. 2 pts. Make first application at egg |
| hatch and repeat applications |
| every 4 to 5 days until a total |
| of four applications has been |
| made. Do not apply within 1 day |
| of harvest. |
| Japanese beetle 3/4 pts. 1 1/2 pts. Make application when first |
| berries turn blue and at 10 day |
| intervals as long as infestation |
| persists. Do not apply within |
| 1 day of harvest. |
| The rates for use on blueberries are based on a standard of 200 gal./acre |
| dilute spray. |
| ries Black cherry aphids Do not apply |
| et Fruit-tree leafroller 1 1/2 pts. 6 pts. within 3 days |
| Cherry fruit fly of harvest. |
| Japanese beetle 1 pt. 4 pts. |
| The rates for use on cherries are based on a standard of 400 gal./acre dilute |
| spray for mature trees. Do not apply more than 8 lbs. of actual DOUGLAS |
| 57% MALATHION per acre to cherry trees. |
| Injury may occur on certain varieties of sweet cherries, particularly |
| in the Northwest. |

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| | Pests | Rate/ | | Interval (Days) Between Last |
|---------------------|-------------------------|---------------|--------------|---------------------------------------|
| Crop | Controlled | 100 gals. | Rate/A | Application and Harvest |
| Citrus | Black scale (single | | | Do not apply when trees are |
| ~Grapefruit | and off-brooded) | | | in bloom. Do not apply |
| ~Kumquat | California red scale | 1 - 1 1/2 | | within 7 days of harvest. |
| ~Lemon | Citricola scale | pts. | | |
| ~Lime | Purple scale | | | |
| ~Orange | Soft brown scale | | l I | |
| ~Tangerine | Yellow scale | | | |
| ~Tangelo | Florida purple scale | | | |
| | Florida red scale | 2 pts. | - 1 | |
| | Citrus red mites | | | Apply in 200 gallons of water |
| | Thrips | - | 2 1/2 pts. | per acre. Do not apply when |
| | | | | trees are in bloom. Do not apply |
| | | | ŀ | within 7 days of harvest. |
| | The rates for use on o | citrus is bas | ed on a star | dard of 500 gal./acre dilute |
| | spray for mature trees | | | - |
| Currants | Japanese beetles | 1 1/2 pts. | 3 pts. | Do not apply within 3 days |
| ~Gooseberries | Rose chafers mites | 1 pt. | 2 pts. | of harvest. |
| | | | <u> </u> | es are based on a standard of |
| | 200 gls./acre dilute sp | | ů. | |
| Figs | Dried fruit beetles | T | 2 ats plus | Do not apply |
| | Vinegar flies | - | 1 -2 gals. | within 3 days |
| , | 3 | | | of harvest. |
| | | | molasses | |
| Grapes | Leafhoppers | | | Do not apply within 3 days |
| • | Spider mites | 1 1/2 pts. | 3 pts. | of harvest. |
| | European fruit | | | Make full coverage applications |
| | lecanium | 1 1/2 pts. | - | when newly hatched nymphs |
| | | | | are migrating over vines, usually |
| | | | 1 | shortly after bloom. Do not |
| | | | | apply within 3 days of harvest. |
| | Mealybugs | - | 1 1/2 pts. | |
| | | | | per acre. Do not apply within |
| | | | | 3 days of harvest. |
| | The rates for use on | grapes are t | based on a s | standard of 200 gal./acre dilute |
| | spray. | | | · · · · · · · · · · · · · · · · · · · |
| | | arapes of Al | meria. Card | inal, Italia and Ribier varieties |
| | 1 · · · · | | | ALATHION are applied after |
| | clusters appear. | | | |
| Grape Vines | Grape phylloxera | 3 pts. | - 1 | Remove excess soil from the |
| (Overwintering on | | 1 | | roots and dip in the DOUGLAS |
| nursery stock only) | | | | 57% MALATHION soultions. |
| | | | | Submerge the entire root |
| | | | | system for 5 minutes. Keep the |
| | | | 1 | 1. |
| | _1 | | 1 | solution agitated at all times. |

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| ······································ | Pests | Rate/ | | Interval (Days) Between Last |
|--|---------------------------------------|--------------|--|-----------------------------------|
| Сгор | Controlled | 100 gals. | Rate/A | Application and Harvest |
| Macadamia Nuts | Green stink bugs | 1 1/2 pts. | - | Apply when insects start to feed |
| | | | | on the nuts and repeat as |
| | | | | necessary. May be applied |
| | | | | during harvest. |
| | No more than 15 lbs. | of actual D | DUGLAS 5 | 7% MALATHION per acre |
| | should be applied to n | | | ····· • |
| Nectarines | Spider mites | 1 - 2 pts. | 3 - 6 pts. | Do not apply within 7 days |
| | Plum curculio | 2 pts. | 6 pts. | of harvest. |
| | The rates for use on n | · | <u>1 </u> | a standard of 300 gal./acre |
| | dilute spray for mature | | | |
| | | ····- | nav cause f | ruit spotting on nectarines. |
| Рарауа | Aphids | 1 1/2 - 2 | | May be applied on the |
| i upuju | Mealybugs | pts. | • _ | day of harvest. |
| Peaches | Black cherry aphid | pt3. | <u> </u> | Do not apply |
| | Black peach aphid | | | within 7 days |
| | European red mite | | | of harvest. |
| | Green peach aphid | 1 pt. | 3 pts. | |
| | Rusty plum aphid | | | |
| | Japanese beetle | | | |
| | Spider mites | | | |
| | Oriental fruit moth | <u> </u> | | |
| | Plum curculio | O mto | 2 010 | |
| | · · · · · · · · · · · · · · · · · · · | 2 pts. | 3 pts. | Make full envergen engligetions |
| | Cottony peach scale | ļ | | Make full coverage applications |
| | European fruit | 0 | | at completion of hatching, about |
| | lecanium Tomasia socio | 2 pts. | - | the last of June. Do not apply |
| | Terrapin scale | [| hazad a a d | within 7 days of harvest. |
| | | | | standard of 300 gal./acre dilute |
| | | | • • | an 9 lbs. of actual DOUGLAS |
| <u></u> | 57% MALATHION pe | acre to pe | ach trees. | |
| Pecans | Aphids Opides mittee | 4 4 /0 0 | 7 4/0 40 | May be applied |
| | Spider mites | 1 1/2 - 2 | 7 1/2 - 10 | on the day of harvest. |
| | Walnut aphid | pts. | pts. | 4 |
| | European red mites | 1 1/4 pts. | 6 1/4 pts. | |
| | Pecan phylloxera | 1 1/4 pts. | 6 1/4 pts. | Apply when bugs begin to |
| | | | | develope and repeat as |
| | | | | necessary. May be applied on |
| | | <u> </u> | ļ | the day of harvest. |
| | Pecan nut | | | Apply after first generation eggs |
| | casebearer | 1 1/4 pts. | 6 1/4 pts. | begin to hatch. May be applied |
| | Walnut husk fly | | | on the day of harvest. |
| | The rates for use on p | pecans are | based on a | standard of 500 gal./acre dilute |
| | spray for mature trees | s 25-35 feet | high. | |

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| | Pests | Rate/ | I | Interval (Days) Between Last |
|---------|--------------------|-----------|------------|----------------------------------|
| Crop | Controlled | 100 gals. | Rate/A | Application and Harvest |
| Walnuts | Aphids | | | May be applied on |
| | European red mites | 1/2 pt. | 1 1/2 - 3 | the day of harvest. |
| | Walnut aphid | 1 | pts. | |
| | Walnut husk fly | 1/2 pt. | 1 1/2 - 3 | Apply with conventional sprayer. |
| | | Î | pts. | For bait sprays, combine |
| | | } | 4 | Staley's Sauce Base #2 or #7 |
| | | | | at the rate of 2 qts./acre with |
| | | | | DOUGLAS 57% MALATHION. |
| | | | 1 | May be applied on the day of |
| | | | | harvest. |
| | | - | 3 - 4 pts. | Apply in 500 gallons of water |
| | | | | per acre with air-carrier type |
| | | | • | sprayer. For bait sprays, |
| | | | | combine Staley's Sauce Base |
| | | | | #2 or #7 at the rate of 2 qts./ |
| | | l | ļ | acre with DOUGLAS 57% |
| | | | | MALATHION. May be applied |
| | | | | on the day of harvest. |

Field Crops and Pasture and Range Grasses:

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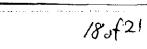
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| | Pests | | Interval (Days) Between Last |
|---------|-----------------------|----------------|---------------------------------|
| Сгор | Controlled | Rate/A | Application and Harvest |
| Aifaifa | Alfalfa weevil larvae | | Apply to alfalfa in bloom only |
| | Aphids | | in the evening or early morning |
| | Grasshoppers | | when bees are not working |
| | Lygus bugs | | in the field or are not hanging |
| | Potato leafhoppers | 1 1/2 - 2 pts. | on outside of hives. May be |
| 2 | Spider mites | 4 | applied on the day of harvest. |
| | Spittlebugs | | |
| | Stink bugs | | |
| | Armyworms | 2 pts. | |
| | Clover leaf weevil | 1 1/2 pts. | |
| | Vetch bruchid | 2 - 2 1/2 pts. | |
| Clover | Alfalfa weevil larvae | | Do not apply to clover |
| | Aphids | - | in bloom. May be |
| | Grasshoppers | | applied on the |
| | Lygus bugs | 1 1/2 - 2 pts. | day of harvest. |
| | Potato leafhoppers | | |
| | Spider mites | | |
| | Spittlebugs | | |
| | Armyworms | 2 pts. | |
| | Clover leaf weevil | 1 1/2 pts. | |

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| | Pests | | Interval (Days) Between Last |
|-----------------|---------------------------------|-------------------------|---|
| Сгор | Controlled | Rate/A | Application and Harvest |
| Corn | Aphids | | For control of corn earworm and |
| ~Grain | Corn earworm | | sap beetles, begin treatment |
| ~Forage | Corn rootworm adults | | when 10% of the ears show silk. |
| ~Sweet | Grasshoppers | 1 1/2 pts. | Repeat applications at 3-5 day |
| ~Field | Sap beetle | | intervals until 4-5 applications |
| | Thrips | | have been made. Do not apply |
| | Armyworms | 1 1/2 - 2 pts. | within 5 days of harvest or |
| | | | forage use. |
| | | e whorl and silk stages | with DOUGLAS 57% |
| Cotton | MALATHION. Brown cotton | | May be poplied on the |
| Cotton | leafworm | • | May be applied on the |
| | | ł | day of harvest. Consult local agricultural authorities |
| | Cotton aphid Cotton leafworm | | 1 - |
| | | 4/0 0 -4- | for exact time of application. |
| | Cotton leafperforator | 1/2 - 2 pts. | |
| | Desert spider mites | | |
| | Leafhoppers | [| |
| | Lygus bugs | | |
| | Thrips | | |
| | Whiteflies | | |
| | Boll weevil | 2 - 4 pts. | |
| | Cotton fleahoppers | 1 - 1 1/2 pts. | |
| | Fall armyworms | | May be applied on the |
| | Garden webworms | 1 1/2 - 3 pts. | day of harvest. |
| | Grasshoppers | | |
| | Lygus bugs | | |
| | Thrips | 1 - 4 pts. | |
| Grasses | Cereal leaf beetle | 1 - 1 1/2 pts. | May be applied on the |
| ~Barnyardgrass | | | day of harvest or grazing. |
| ~Canarygrass | | | |
| ~Fescue | | |] |
| ~Orchardgrass | | | |
| ~Red top | | | 1 |
| ~Timothy | | | |
| ~Yellow foxtail | | | |
| Pastures | Aphids | 1 1/2 - 2 pts. or | May be applied on the day |
| ~Range Grass | Grasshoppers | 1 1/2 pts. in 1 gl. of | of harvest or grazing. |
| ~Grass | Leafhoppers | diesel fuel oil / acre | ļ |
| ~Grass Hay | Armyworms | 2 pts. or 1 1/2 pts. in |] |
| | | 1 gl. of diesel fuel | |
| | ł | oil /acre | 1 |

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| Сгор | Pests Controlled | Rate/A | Interval (Days) Between Last Application and Harvest |
|--|---|------------------------------|---|
| Small Grains ~Barley ~Oats ~Rye | Cereal leaf beetle English grain aphids Grasshoppers Greenbugs | 1 - 1 1/2 pts. 1 1/2 pts. | Do not apply within 7 days of harvest or forage use. |
| ~Wheat ~Rice | Winter grain mites | 2 pts. | |
| Sorghum ~Grain | Greenbugs | 1 1/2 pts. | Do not apply within 7 days of harvest. Do not feed or graze by livestock. |
| Vetch | Omniverous leaf tier Pea aphid Vetch bruchid | 1 1/2 - 2 1/2 pts. | May be applied on the day of harvest or grazing. |

Mosquito Control:

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| Mosquito larvae | 13 fl. oz. per acre | For use in standing water "Broadcast use |
|-----------------|---------------------------------|--|
| | | only over intermittently flooded areas. App- |
| | | lication may not be made around bodies of |
| | | water where fish or shellfish are grown and/ |
| | | or harvested commercially".Mix in sufficient |
| | | water or oil when applied by air or ground |
| | | equipment. |
| Mosquito adults | 1 pt. to 28 pts. of water, fuel | Spray building foundations, shrubs, low |
| | or diesel oil. | trees and lawn areas. |

OUTDOOR ORNAMENTALS

Flowers, Shade Trees, Shrubs: Injury may occur on Ferns, Hickory, Viburnum, Crassula and Canareti Juniper following the use of DOUGLAS 57% MALATHION, slight injury has also been reported on Boston, Pteris and Maidenhair Ferns, Petunias, Small-Leaf Spirea, White Pine and Maples. Under extreme heat, drought and disease conditions the emulsifiable concentrates may cause slight damage to elms.

| Pest | Rate | Remarks |
|--------------------------|---------------------------------------|---------|
| Aphids | 1 1/2 pts. per 100 gallons or | - |
| Spider mites | 2 teaspoons per gallon. | |
| Bagworms | 2 pts. per 100 gallons or | |
| Birch leaf miner | 2 teaspoons per gallon. | - |
| Boxwood leaf miner | | |
| European pine shoot | 1 1/2 pts. per 100 gallons or | - |
| moth | 2 teaspoons per gallon. | |
| Four-lined leaf bug | | |
| Japanese beetle adult | | |
| Potato leafhopper | l l | |
| Rose Leafhopper | · · · · · · · · · · · · · · · · · · · | |
| Tamished plant bug | | |
| Thrips | | |

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| Pest Rate | | Remarks | |
|----------------------|-------------------------------|---|--|
| Lace bug | 1 pt. per 100 gallons or | - | |
| | 2 teaspoons per gallon. | | |
| Mealybugs | 1 1/2 pts. per 100 gallons or | | |
| Whiteflies | 2 teaspoons per gallon. | | |
| Oak kermes | 2 pts. per 100 gailons or | Apply when scale crawlers have settled | |
| | 2 teaspoons per gallon. | on foliage. | |
| Tent caterpillar | 2 pts. per 100 gallons or | - | |
| | 2 teaspoons per gallon. | | |
| Oyster shell scale | 1 pt. per 100 gallons or | Apply when scale crawlers have settled | |
| | 2 teaspoons per gallon. | on foliage. | |
| Euonymus scale | 1 1/2 pts. per 100 gallons or | - | |
| Scurfy scale | 2 teaspoons per gallon. | | |
| Azalea scale | 2 pts. per 100 gallons or | - | |
| Magnolia scale | 2 teaspoons per gallon. | | |
| Pine leaf scale | | | |
| Fletcher scale | 2 pts. per 100 gallons or | Apply when scale crawlers have settled | |
| | 2 teasppons per gallon. | on foliage. | |
| Florida red scale | 2 pts. per 100 gallons or | Apply when scale crawlers have settled | |
| Juniper scale | 2 teaspoons per gallon. | on foliage. | |
| Black scale crawlers | 2 1/4 pts. per 100 gallons or | - | |
| Soft brown scale | 2 teaspoons per gallon | | |
| Monterey pine scale | 2 1/2 pts. per 100 gailons or | - | |
| | 2 teaspoons per gallon. | | |
| Pine needle scale | 4 pts. per 100 gallons or | - | |
| | 4 teaspoons per gallon. | | |
| Wax scale | 4 pts. per 100 gallons or | Apply in spring when crawlers are active. | |
| | 4 teaspoons per gallon. | Repeat 1 or 2 full-coverage applications at | |
| | | 10-day intervals. | |

Around The Home:

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| Site | Pest | Rate | Remarks |
|-------|---------------|----------------|----------------------------------|
| Lawns | Ant mounds | 1 1/2 pts. per | Spray ant hills thoroughly so |
| | | 100 gallons | that they are well soaked. For |
| | | | other small ants in flower beds, |
| | | | lawns, around trees, spray |
| | | | lightly in the infested areas. |
| | | | Repeat in 10-15 days if ants |
| | | | return. |
| | Ground pearls | 3 - 4 qts. per | Make full coverage to soil |
| | | 100 gallons | surface when ground pearl |
| | | | nymphs are in the pink, |
| | | | "crawler" or active stage and |
| | | | immediately wash into soil |
| | | | with additional water. |

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On and Around Cull Fruit and Vegetable Dumps:

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| Pest | Rate | Remarks |
|---------------------|-------------------------------|--|
| Drosophila flies | 1 1/2 gallons per 100 gallons | Apply as a drench using 8-10 gals of spray |
| Dried fruit beetles | of water. | per 100 sq. ft. For best results, dumps |
| | | should not be over 18 inches deep. DO |
| | | NOT FEED TREATED FRUIT AND |
| | | VEGETABLES. |