

Reg # 34704-108

PM-14

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

FEB 23 1994

**OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES**

**J. Allen Dunlap, III  
William M. Mahlburg  
Agent for: PLATTE CHEMICAL CO., INC.  
P. O. Box 667  
Greeley, CO 80632**

**Subject: Label Amendment Submission of 09/21/93 in Response to PR Notice 93-7  
EPA Reg. No. 34704-108  
CLEAN CROP MALATHION 57 EC**

**IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office  
of Compliance Monitoring within 20 Days.**

**Dear Registrant:**

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**

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contains at least 50% recycled fiber**

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Each notification must include the following information:

- 1. Registrant's name and address.
- 2. EPA Registration number of the product for which the labeling was submitted.
- 3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

- 1. Quantity of the product that has been sold or distributed.
- 2. EPA Producing Establishment number.
- 3. Location of the product, if known.
- 4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
 Compliance Division, (7203)  
 Worker Protection Notification  
 Office of Compliance Monitoring  
 U.S. Environmental Protection Agency  
 401 M Street SW  
 Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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**IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.**

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

**AND**

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

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Hand or courier deliveries of final labeling may be made to:

**Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202**

**Sincerely,**



**Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)**

**Attachment**

**cc: Office of Compliance Monitoring**

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

J Allen Dunlap III  
WILLIAM M. MAHLBURG  
AGENT FOR: PLATTE CHEMICAL CO., INC.  
- BOX 667  
GREELEY CO 80632

Comment for: EPA Reg Nr.34704-108  
CLEAN CROP MALATHION 57 EC

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The footwear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Shoes plus socks." The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

One or more of the statements in the Non-Agricultural Use Requirements box is not found on your original label. Delete the crossed-out sentence(s). If you wish to retain the sentence(s) you must submit an amendment request to the Product Manager. If there are no remaining requirements in the box after you delete the sentence(s), delete the entire Non-Agricultural Use Requirements box. Please refer to the instructions starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

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PROPOSED LABEL



# MALATHION 57 EC

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 23 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34704-108

### Organophosphate Insecticide

<b>ACTIVE INGREDIENTS:</b>	
Malathion .....	57.00%
<b>INERT INGREDIENTS**</b> .....	
	43.00%
<b>TOTAL</b>	
	100.00%

\*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate.  
\*\*This product contains xylene range aromatics.  
Contains 5 pounds of Malathion per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

DO NOT STORE OR USE IN OR AROUND THE HOME

EPA REG. NO. 34704-108  
EPA EST. NO. 34704-CO-3  
NET CONTENTS 2 1/2 GAL. (9.46 L)

See Below For Complete Directions For Use.  
WP5EXP00983

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### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid contact with skin. Avoid breathing of spray mist. Avoid contamination of feed and foodstuff. Keep out of reach of children.

Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

### Personal Protective Equipment

[REDACTED]

### USER SAFETY RECOMMENDATIONS

[REDACTED]

### 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where there are important resources. Apply this product only as specified on this label.

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 & CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### STATEMENT OF PRACTICAL TREATMENT

**If Swallowed** — Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the 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** — Remove contaminated clothing and 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.

### DIRECTIONS FOR USE

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

[REDACTED]

### AGRICULTURAL USE REQUIREMENTS

[REDACTED]

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**MALATHION 57 EC**  
**EPA REG. NO. 34704-108**

when insects first appear and repeat at 2 week intervals if needed. Observe use limitations. Avoid contamination of feed, food containers and water troughs.

**CATTLE (Beef and Non-Milking): LICE** — Use 1 gallon per 100 gallons of water or 6 1/2 ounces per 5 gallons of water. One treatment may be sufficient. Repeat only if needed. **Ticks** — Use 1 to 2 gallons per 100 gallons of water or 6 1/2 to 13 ounces per 5 gallons of water. **Horflies** — Use 1 to 1 1/2 gallons per 100 gallons of water or 6 1/2 to 10 ounces per 5 gallons of water. Do not treat calves under 1 month of age. Do not apply to lactating dairy animals, or to nonlactating dairy animals within 2 weeks of freshening.

**HOGS: Lice** — Use 1 gallon per 100 gallons of water or 6 1/2 ounces per 5 gallons of water. Spray animals, pens and litter. One treatment may be sufficient. Repeat only if needed.

**SHEEP, GOATS: Lice, Ticks, Keds** — Use 1 gallon per 100 gallons of water or 6 1/2 ounces per 5 gallons of water. Spray animals thoroughly. Repeat application after 2 or 3 weeks if needed. Do not apply to milk goats. Do not treat animals under one month of age.

**POULTRY (DIRECT APPLICATION): Northern Fowl Mite, Poultry Lice** — Use 2 tablespoons per 1 gallon of water per 100 to 150 birds and spray on birds.

**POULTRY HOUSE: Northern Fowl Mite, Chicken Red Mite, Poultry Lice, Fleas** — Use 4 tablespoons per 1 gallon of water. **Poultry Ticks** — Use 6 to 7 ounces per 1 gallon of water. Apply spray liberally to litter, walls, ceiling, roosts, nests and adjacent areas. Force spray into all cracks and crevices.

**ROOST PAINT: Chicken Red Mite, Poultry Lice** — Use 2 to 7 ounces per 1 gallon of water. Brush on roosts at the rate of 1 pint per 150 feet of roosts. Repeat as necessary.

**NOTICE**

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE 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 PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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FORMULATED FOR  
**PLATTE CHEMICAL CO.**  
150 SO. MAIN STREET      FREMONT, NEBRASKA 68026-8697

**MALATHION 57 EC**  
**EPA REG. NO. 34704-108**

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**NECTARINES (7):** Mites — Use 1 to 2 pints per acre. Plum Curculio — Use 2 pints per acre.

**OKRA (1):** Aphids — Use 1 1/2 pints per acre. Japanese Beetle — Use 2 to 2 1/2 pints per acre.

**ONIONS** — Including Green Onions (3): Onion Thrips — Use 1 1/2 pints per acre. Onion Maggots — Use 2 1/2 to 3 pints per acre.

**PEACHES (7):** Oriental Fruit Moth, Aphids — Use 2 pints. For Oriental Fruit Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved.

**PEANUTS (8):** Leafhoppers, Thrips — Use 1 1/2 pints per acre.

**PEARS (1):** Pear Psylla, Mealybug — Use 1 to 2 pints. Codling Moth, Leafrollers — Use 2 pints. For Codling Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved. Injury may occur under certain conditions in the Northwest on Bosu Pears.

**PEAS (3):** Aphids — Use 1 1/2 to 2 pints per acre. Forage may be fed to livestock.

**PECANS (8):** Pecan Bud Moth, Pecan Leaf Casebearer, Pecan Nut Casebearer, Pecan Phylloxera — Use 1.2 pints per acre. Aphids, Mites — Use 1 to 2 pints per acre.

**PEPPERS (3):** Aphids — Use 1 1/2 to 1 1/2 pints per acre. Pepper Maggots — Use 2 1/2 pints per acre.

**PLUMS (3), PRUNES (3):** Mealy Plum Aphids, Eye-spotted Bud Moths (Prunes Only) — Use 1 pint.

**POTATOES (8):** Aphids, Leafhoppers — Use 1 to 1 1/2 pints per acre.

**QUINCES (3):** Forbes Scale — Use 1 pint per acre. Mites — Use 1 to 2 pints per acre. Codling Moth, Oriental Fruit Moth, Plum Curculio — Use 2 pints per acre.

**RASPBERRIES (1):** Japanese Beetle, Leafhopper, Mites, Thrips — Use 1 1/2 pints per acre. Sap Beetle — Use 1 1/2 to 2 pints per acre. Aphids, Rose Scale — Use 3 pints per acre.

**RICE (7):** Rice Leafminer — Use 2 1/2 pints per acre. Apply when the eggs and larvae are abundant on the seedling rice and repeat as necessary. Rice Slink Bug — Use 1 to 1 1/2 pints per acre. Apply during the early milk and dough stage of growing rice. The rice herbicide, Propanil (Stam F-34 or Roque) should not be applied within 15 days of a Malathion treatment.

**SAFFLOWER (3):** Aphids, Grasshoppers, Lygus Bugs — Use 1 1/2 to 2 pints per acre.

**SOYBEANS (3):** Mexican Bean Beetle — Use 2 1/2 to 3 pints per acre. Green Cloverworm — Use 3 pints per acre.

**SPINACH (7):** Aphids — Use 2 pints per acre.

**STRAWBERRIES (3):** Aphids, Lygus Bugs, Spittle Bugs, Potato Leafhoppers, Strawberry Leafroller, Whitefly, Strawberry Root Weevil and Field Crickets — Use 1 1/2 to 3 pints per acre. For Strawberry Root Weevil apply to the soil surface before planting, work into the top 6 to 8 inches of soil.

**SUGAR BEETS (3):** Aphids, Mites — Use 1 1/2 to 2 pints per acre. Grasshoppers — Use 2 pints per acre.

**SWEET POTATOES (3):** Leafhoppers, Morning-glory Leafminers — Use 1 1/2 to 3 pints per acre.

**TOBACCO (7):** Aphids — Use 1 1/2 to 2 1/2 pints per acre.

**TOMATOES:** Aphids, Tomato Russet Mite — Use 1 to 3 pints per acre. Drosophila — Use 2 1/2 to 3 pints per acre. Do not apply within 1 day of harvest. California only: Armyworms, Tomato Fruitworm — Use 2 3/4 quarts per acre. Make 1/2 coverage application to foliage and fruit. Do not apply within 3 days of harvest.

**VETCH (7):** Omnivorous Leaf Tier, Pea Aphid, Vetch Bruchid — Use 1 1/2 to 2 pints per acre.

**WALNUTS (8):** Aphids, Mites — Use 0.2 to 0.4 pint per 100 gallons. Walnut Husk Fly — Use 0.4 to 0.6 pint per 100 gallons.

**WATERMELONS (1):** Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons. Cucumber Beetle — Use 2 pints per acre. Leafhoppers, pickleworms — Use 2.5 to 2.75 pints per acre.

**GRAIN STORAGE:** For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, and box cars, before loading grain, apply 1 gallon of this material per 25 gallons of water making thorough application. Before applying spray, clean elevators and box cars thoroughly. Remove and burn all sweeping and debris.

**STORED GRAIN, FIELD AND GARDEN SEEDS:** For the protection of wheat, oats, rice, corn, rye, barley, grain sorghum and field or garden seeds, against Confused Flour Beetle, Rice Weevil, Granary Weevil, Sawtoothed Grain Beetle, Flat Grain Beetle, Red Flour Beetle, Rusty Grain Beetle, Lesser Grain Borer and as an aid in control of Indian Meal

Moth, apply 1 pint of MALATHION 57 EC in 2 to 5 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage. Good coverage is essential.

As a supplemental aid in the control of Indian Meal Moth, apply this material to the surface of clean or uninfested grain at the rate of 1/2 pint in 1 to 2 gallons of water per 1,000 square feet of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.

**PEANUT STORAGE:** For a residual storage wall and floor spray, machinery spray in treating truck beds and box cars before loading or storing peanuts. Use 1 pint of this material in 2 1/2 gallons of water and apply as a coarse spray at the rate of 2 gallons per 1,000 square feet of surface or to runoff. Clean warehouse thoroughly of trash and remains of old peanuts 1 to 2 weeks before new peanut crop is stored. Then, thoroughly spray the interior of the empty warehouse, especially cracks and protected places. Treat outside walls to a height of 6 to 8 feet and the ground to a distance of 6 feet from the warehouse.

**STORED PEANUTS:** For the protection of peanuts against Confused Flour Beetle, Flat Grain Beetle, Granary Weevil, Lesser Grain Borer, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle, Sawtoothed Grain Beetle, and as an aid in the control of Indian Meal Moth, apply 2 1/2 pints of this material in 5 gallons of water for each 15 tons of farmers stock peanuts. Apply as the peanuts are being loaded or turned into final storage. Good coverage is essential. As a supplemental aid in the control of Indian Meal Moth, apply 0.7 pint of MALATHION 57 EC in 2 gallons of water for each 1,000 square feet of surface. Apply the first surface treatment as soon as the bin is filled and leveled but not later than the first week in October. Apply the second surface treatment one month later, followed by subsequent treatments at 2-month intervals. Use a piston-pump type power sprayer, equipped with an agitator and with a nozzle capable of delivering a coarse spray. Use spray equipment with sufficient capacity and power to cover large surfaces thoroughly.

**STORED ALMONDS:** To protect stored shelled and in-shell almonds from attack by Indian Meal Moth and Merchant Grain Beetle, use 4 fluid ounces in sufficient water as almonds go into storage to treat 10,000 pounds of almonds. Use a suitable mechanical spray applicator that regulates the rate of application to the flow of almonds. Avoid spraying with a fine mist that drifts away. Shield the nozzle against wind and air currents.

**BAGGED CITRUS PULP:** Residual Warehouse Spray: Use 1 gallon of MALATHION 57 EC per 19 gallons of water. Apply spray at the rate of 2 gallons per 1,000 sq. ft. of surface or to runoff. Before bagged citrus pulp is stored, thoroughly clean warehouses by removing and burning all debris and sweepings. Thoroughly spray with sufficient pressure interior of empty warehouses (including cracks and protected places), outside walls to a height of 6 to 8 feet and ground to a distance of about 6 ft. from warehouse.

**STORED BAGGED CITRUS PULP:** For the protection of bagged citrus pulp against Almond moth, Angoumois grain beetle, Cigarette beetle, Confused flour beetle, Flat grain beetle, Mediterranean flour moth, Red flour beetle, Saw-toothed grain beetle, and as an aid in the control of Indian Meal Moth, apply 8 1/2 ounces per 1,000 sq. ft. of exposed bag surface area when bagged citrus pulp is stored. Make 2 separate spray applications initially when bagged citrus pulp is stored. Once each month thereafter throughout storage period use 7 oz. per gal. of water and apply at the rate of 2 gallons per 1,000 sq. ft. of exposed bag surface area. Do not use treated bags other than for dried citrus pulp.



**NON-AGRICULTURAL LANDS:** Grasshoppers — Use 1 1/2 to 3 pints per acre. Minks (black grassbugs) — Use 1 1/2 pints per acre.

**DROSOPHILA FLIES:** For control of Drosophila flies in and around wineries and processing plants, paint all doors and window screens with a solution containing 3 1/2 ounces in 1 quart of water. Avoid contamination of wine, food, utensils, equipment and water. Do not apply this treatment in the edible product areas of food processing plants.

**MOSQUITOES AND SMALL FLYING INSECTS:** Mix 1 pint of MALATHION 57 EC as directed to treat 1 1/4 to 2 acres (2 ozs. per 6,000 square feet for smaller areas). Use 2% to 5% spray or fog on lawns and areas outside the home such as patios. Dilute 1 part (1 pint) MALATHION 57 EC with 28 parts (3 1/2 gals.) of water or kerosene type solvent such as fuel oil or diesel oil to make a 2% mix. For a 5% mix, dilute 1 part (1 pint) MALATHION 57 EC with 11 parts (1 1/4 gals.) of water or similar oil solvents. Repeat application as necessary. Avoid applying oil-based formulations to plants as injury may occur. Do not apply where food crops may be contaminated. MALATHION 57 EC may cause spotting on automobile paint finish. Cars should not be sprayed directly. If accidental exposure occurs, the car should be washed immediately.

**ANIMALS:** Apply as a complete coverage spray. Begin applications

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## MALATHION 57 EC

### EPA REG. NO. 34704-108

#### 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:** Do not store below temperature of 0°F. If frozen, warm to 40°F. and redissolve before using by rolling or shaking the container. 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 rinseate 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:** 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. 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.

#### RECOMMENDATIONS FOR USE

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 and nuts; a minimum of 300 gallons per acre on pome fruits; a minimum of 200 gallons per acre on bush and vine fruits and a minimum of 10 gallons per acre on vegetable and row crops. By air, a minimum of 2 gallons per acre on small fruits and tree crops. Use the designated amount in 100 gallons of water unless otherwise specified.

#### 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.

Do not use in undiluted form. Observe days interval between last application and harvest indicated by number in ( ) following the crop.

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.

**ALFALFA (0):** Grasshoppers, Pea Aphid, Spotted Alfalfa Aphid, Lygus Bugs, Leafhoppers, Alfalfa Weevil Larvae — Use 1 1/2 to 2 1/4 pints per acre. Armyworms — Use 2 to 2 1/4 pints per acre. Apply to Alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of hives.

**ALMONDS (0):** Aphids, Peach Twig Borer, Red Spider Mites — Use 1-2 pints per acre.

**APPLES (3):** Codling Moth — Use 2 pints, Eyespotted Bud Moth, Forbes Scale, Woolly Aphid — Use 1 pint, Tent Caterpillars — Use 1 to 1 1/2 pints. Mealybug — Use 1 to 2 pints. Green Apple Aphid, Rosy Apple Aphid — Use 1 1/2 pints. For Codling Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved. Applications of this material may cause injury of McIntosh and related varieties of apples.

**APRICOTS (7):** Orange Tortrix, Soft Scale — Use 2 pints.

**ASPARAGUS (1):** Asparagus Aphid, Asparagus Beetle, Thrips — Use 1 1/2-2 pints per acre.

**BARLEY (7), OATS (7), RYE (7), WHEAT (7):** Young Grasshoppers, Greenbugs, English Green Aphid — Use 1 1/2 to 2 pints per acre. Armyworms — Use 2 pints per acre.

**BEANS (1):** Aphids, Cucumber Beetles — Use 2 to 2 1/2 pints per acre. Mexican Bean Beetle, Leafhoppers — Use 1 1/2 to 2 1/2 pints per acre. Lygus Bug (Dry Beans — California) — Use 1 1/2 to 2 pints per acre.

**BEETS (7):** Aphids — Use 1 1/2 to 2 pints per acre.

**BLACKBERRIES (1), BOYSENBERRIES (1), DEWBERRIES (1), LOGANBERRIES (1):** Rose Scale, Aphids — Use 3 pints per acre. Japanese Beetle, Leafhoppers, Mites, Thrips — Use 1 1/2 pints per 100 gallons.

**BLUEBERRIES (1):** Japanese Beetle — Use 1 1/2 pints per acre. Cherry Fruitworm, Cranberry Fruitworm — Use 1.6 pints per 200 gallons per acre. Plum Curculio, Sharp-nosed Leafhopper — Use 2.8 to 3.2 pints per acre.

**BROCCOLI (3), BRUSSELS SPROUTS (7), CAULIFLOWER (7), CAB-**

**BAGE (7), KALE (7), KOHLRABI (7), HORSERADISH (7), LENTILS (3), MUSTARD GREENS (7), PARSLEY (21), PARSNIPS (7), RADISHES (7), RUTABAGAE (3), SALSIFY (7), SWISS CHARD (7), TURNIPS (3):** Aphids, Imported Cabbage Worm, Cabbage Looper — Use 1 to 2 pints per acre.

**CANTALOUPE (1):** Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2.8 to 3.2 pints per acre. Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons.

**CARROTS (7):** Aphids — Use 1 1/2 to 2 pints per 100 gallons. Leafhoppers — Use 2 1/2 pints per acre.

**CELERY (7):** Spider Mites, Aphids — Use 1 1/2 pints per acre.

**CHERRIES (3):** Black Cherry Aphid, Fruitree Leafroller — Use 1 1/2 pints. Cherry Fruit Fly, Eyespotted Bud Moth — Use 1 pint. Injury may occur on certain varieties of Sweet Cherries particularly in the Northwest.

**CHESTNUTS (0):** Mites — Use 0.8 pint.

**CITRUS — GRAPEFRUIT (7), LEMONS (7), LIMES (7), ORANGES (7), TANGERINES (7):** California Red Scale, Yellow Scale, Purple Scale, Black Scale, Soft Scale, Citrus Scale — Use 1 1/2 pints. Red Scale, Purple Scale — Use 1 1/4 pints per 100 gallons of water for light infestation and 2 pints per 100 gallons for moderate and heavy infestation. Thrips — Use 1 1/2 pints per 100 gallons of water per acre. Do not apply during full bloom.

**CLOVER (0):** Aphids, Leafhoppers, Lygus Bugs — Use 1 1/2 to 2 pints per acre. Apply to plants in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of hives.

**COLLARDS (7):** Harlequin Cabbage Bug — Use 1 pint per 100 gallons per acre. Leafhoppers, Leaf Miners — Use 1/2 pint per acre. Aphids — Use 1 1/2 to 2 pints per 100 gallons. Caterpillars — Use 2 pints per acre. Cabbage Looper, Diamond Back Moth, Imported Cabbage Worm — Use 2.8 pints per acre and combine with other recommended insecticide.

**CORN: sweet (5):** Sap Beetle — Use 1 1/2 pints per acre. Begin treatment when 10% of ears show silk. Repeat at 3 to 5 day intervals until 4 to 5 applications are made. Maize for grain or forage: Young Grasshoppers — Use 1 1/2 pints per acre. Apply when nymphs are young. Injury may occur in the whorl and silk stage, using this type Malathion product.

**COTTON (0):** Aphids, Leafhoppers, Whiteflies, Brown Cotton Leafworm, Cotton Leafroller, Thrips, Lygus Bug — Use 1 1/2 to 2 pints per acre. Boll Weevil — Use 1 to 3 quarts per acre.

**COWPEA HAY (0):** Grasshoppers — Use 1 1/2 to 2 pints per acre.

**CUCUMBER (1), SQUASH (1), MELONS (1), PUMPKINS (3):** Aphids — Use 1 1/2 pints per acre. Do not apply unless plants are dry.

**CURRENTS (3):** Current Aphid, Imported Currentworm — Use 3.2 pints per acre. Japanese Beetle, Mites — Use 1.6 pints per 100 gallons.

**DANDELIONS (7):** Aphids — Use 1 1/2 to 2 pints per acre.

**EGGPLANTS (3):** Aphids — Use 1 to 1 1/2 pints per acre. Lace Bugs — Use 3 pints per acre.

**ENJOVE (7):** Aphids, Mites — Use 1 1/2 to 2 pints per 100 gallons.

**FIGS (3):** Vinegar Flies — Use 2 quarts plus 1 to 2 gallons Sulfured Molasses in a minimum of 300 gallons of water per acre.

**FILBERTS (0):** Apple Mealybug, Eye-spotted Bud Moth, Filbert Aphid, Scale (crawler stage), Tingids — Use 1 pint per 100 gallons.

**GARLIC (3), LEAKS (3), SHALLOTS (3):** Thrips, Aphids — Use 1 1/2 to 2 pints per acre.

**GOOSEBERRIES (3):** Current Aphid, Imported Currentworm — Use 3.2 pints, Japanese Beetle, Mites — Use 1.6 pints per 100 gallons.

**GRAIN SORGHUM (7):** Greenbugs — Use 1 1/2 pints per acre. Make full coverage application and repeat as necessary.

**GRAPES (2):** Mealybugs — Use 1 1/2 pints (200 to 275 gallons per acre). Emulsion may cause injury to foliage on some varieties. (Ribier, Raisin, Cardinal, Almeria.)

**GRASS (0), GRASS HAY (0), PASTURE (0), and RANGE GRASS (0):** Aphids, Leafhoppers, Grasshoppers — Use 1 1/2 to 2 pints per acre. Armyworms — Use 2 pints per acre.

**HONEYDEWS (1):** Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2.8 to 2.8 pints per acre. Aphids, Mites — Use 1 1/2 to 2 pints per acre.

**HOPS (7):** Aphids, Mites — Use 1 pint per acre.

**LESPEDEZA (0), LUPINES (0):** Grasshoppers — Use 1 1/2 to 2 pints per acre.

**LETTUCE (Head-7, Leaf-14):** Aphids, Leafhoppers — Use 2 pints per acre. Cabbage Looper, Mites — Use 2 1/2 to 3 pints per acre.

**MINT (7):** Adult Flea Beetles, Aphids, Caterpillars, Leafhoppers, Spider Mites — Use 1 to 1 1/2 pints per acre.

**MUSHROOMS (1):** Mites, Phorid & Scarid Flies — Use 2 1/2 pints per 130 gallons of water OR 2 lbs. per 3 gallons of water per 1,000 square feet of bed.

**MUSKMELONS (1):** Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons. Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2 1/2 to 2 3/4 pints per acre.



PM 14 34704-108 File 10/11

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

FEB 23 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

J. Allen Dunlap, III  
William M. Mahlburg  
Agent for: PLATTE CHEMICAL CO., INC.  
P. O. Box 667  
Greeley, CO 80632

Subject: Label Amendment Submission of 09/21/93 in Response to PR Notice 93-7  
EPA Reg. No. 34704-108  
CLEAN CROP MALATHION 57 EC

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**

**BEST AVAILABLE COPY**



Recycled/Recyclable  
Printed with Soy/Canola ink on paper that  
contains at least 50% recycled fiber

2017

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

**AND**

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

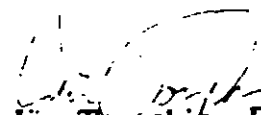
Document Processing Desk (FIN-LABEL)  
 Office of Pesticide Programs (7505C)  
 U.S. Environmental Protection Agency  
 401 M Street, SW  
 Washington, D.C. 20460-0001

**BEST AVAILABLE COPY**

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

**BEST AVAILABLE COPY**

5017

PROPOSED LABEL



# MALATHION 57 EC

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
FEB 23 1977

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. **34704-108**

## Organophosphate Insecticide

ACTIVE INGREDIENTS:	
Malathion*	57.00%
INERT INGREDIENTS**	43.00%
TOTAL	
	100.00%

\*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate.  
 \*\*This product contains xylene range aromatics.  
 Contains 5 pounds of Malathion per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

DO NOT STORE OR USE IN OR AROUND THE HOME

EPA REG. NO. 34704-108  
EPA EST. NO. 34704-CO-3  
NET CONTENTS 2 1/2 GAL. (9.46 L)

See Below For Complete Directions For Use.

3478

WPSEXPO8Y93

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION: Harmful if Swallowed.** Avoid contact with skin. Avoid breathing of spray mist. Avoid contamination of feed and foodstuff. Keep out of reach of children.

Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

#### Personal Protective Equipment:

**Apply to foliage, plants, or other surfaces to which this product is applied. Do not use in areas where the general public or domestic animals are present.**

**Applicators and other handlers must wear long-sleeved shirt and trousers, socks, shoes, and a hard hat. Such protective equipment should be removed when the handler leaves the application area and before eating, drinking, or smoking.**

**Engineering controls' statements:**

**Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.**

**Do not eat, drink, or use tobacco products while using this product.**

**Do not breathe vapors from this product.**

**Do not get this product on your clothing or skin. If it does, wash immediately with soap and water.**

**If you have been exposed to this product, contact your physician immediately for medical attention.**

**Do not use near water, streams, or other bodies of water.**

**Do not use in areas where children or domestic animals are present.**

**Do not use in areas where the general public is present.**

**Do not use in areas where the general public is present.**

#### USER SAFETY RECOMMENDATIONS

**Do not eat, drink, or use tobacco products while using this product.**

**Do not breathe vapors from this product.**

**Do not get this product on your clothing or skin. If it does, wash immediately with soap and water.**

**If you have been exposed to this product, contact your physician immediately for medical attention.**

**Do not use near water, streams, or other bodies of water.**

**Do not use in areas where children or domestic animals are present.**

**Do not use in areas where the general public is present.**

**Do not use in areas where the general public is present.**

#### 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

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 & CHEMICAL HAZARDS

Do not use or store near heat or open flame.

#### STATEMENT OF PRACTICAL TREATMENT

**If Swallowed** — Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the 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** — Remove contaminated clothing and 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.

#### DIRECTIONS FOR USE

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

For any questions, see label or your State or local health department.

#### AGRICULTURAL USE REQUIREMENTS

**Do not use in areas where the general public or domestic animals are present.**

**Apply to foliage, plants, or other surfaces to which this product is applied. Do not use in areas where the general public or domestic animals are present.**

**Applicators and other handlers must wear long-sleeved shirt and trousers, socks, shoes, and a hard hat. Such protective equipment should be removed when the handler leaves the application area and before eating, drinking, or smoking.**

**Engineering controls' statements:**

**Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.**

**Do not eat, drink, or use tobacco products while using this product.**

**Do not breathe vapors from this product.**

**Do not get this product on your clothing or skin. If it does, wash immediately with soap and water.**

**If you have been exposed to this product, contact your physician immediately for medical attention.**

**Do not use near water, streams, or other bodies of water.**

**Do not use in areas where children or domestic animals are present.**

**Do not use in areas where the general public is present.**

**Do not use in areas where the general public is present.**

# BEST AVAILABLE COPY

**MALATHION 57 EC**  
**EPA REG. NO. 34704-108**

**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:** Do not store below temperature of 0°F. If frozen, warm to 40°F, and redissolve before using by rolling or shaking the container. 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:** 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. 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.

**RECOMMENDATIONS FOR USE**

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 and nuts; a minimum of 300 gallons per acre on pome fruits; a minimum of 200 gallons per acre on bush and vine fruits and a minimum of 10 gallons per acre on vegetable and row crops. By air, a minimum of 2 gallons per acre on small fruits and tree crops. Use the designated amount in 100 gallons of water unless otherwise specified.

**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.

Do not use in undiluted form. Observe days interval between last application and harvest indicated by number in ( ) following the crop.

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.

**ALFALFA (0):** Grasshoppers, Pea Aphid, Spotted Alfalfa Aphid, Lygus Bugs, Leafhoppers, Alfalfa Weevil Larvae — Use 1 1/2 to 2 1/4 pints per acre. Armyworms — Use 2 to 2 1/4 pints per acre. Apply to Alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of hives.

**ALMONDS (0):** Aphids, Peach Twig Borer, Red Spider Mites — Use 1-2 pints per acre.

**APPLES (3):** Codling Moth — Use 2 pints, Eyespotted Bud Moth, Forbes Scale, Woolly Aphid — Use 1 pint. Tent Caterpillars — Use 1 to 1 1/2 pints. Mealybug — Use 1 to 2 pints. Green Apple Aphid, Rosy Apple Aphid — Use 1 1/2 pints. For Codling Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved. Applications of this material may cause injury of McIntosh and related varieties of apples.

**APRICOTS (7):** Orange Tortrix, Soft Scale — Use 2 pints.

**ASPARAGUS (1):** Asparagus Aphid, Asparagus Beetle, Thrips — Use 1 1/2-2 pints per acre.

**BARLEY (7), OATS (7), RYE (7), WHEAT (7):** Young Grasshoppers, Greenbugs, English Green Aphid — Use 1 1/2 to 2 pints per acre. Armyworms — Use 2 pints per acre.

**BEANS (1):** Aphids, Cucumber Beetles — Use 2 to 2 1/2 pints per acre. Mexican Bean Beetle, Leafhoppers — Use 1 1/2 to 2 1/2 pints per acre. Lygus Bug (Dry Beans — California) — Use 1 1/2 to 2 pints per acre.

**BEETS (7):** Aphids — Use 1 1/2 to 2 pints per acre.

**BLACKBERRIES (1), BOYSENBERRIES (1), DEWBERRIES (1), LOGANBERRIES (1):** Rose Scale, Aphids — Use 3 pints per acre. Japanese Beetle, Leafhoppers, Mites, Thrips — Use 1 1/2 pints per 100 gallons.

**BLUEBERRIES (1):** Japanese Beetle — Use 1 1/2 pints per acre. Cherry Fruitworm, Cranberry Fruitworm — Use 1.6 pints per 200 gallons per acre. Plum Curculio, Sharp-nosed Leafhopper — Use 2.8 to 3.2 pints per acre.

**BROCCOLI (3), BRUSSELS SPROUTS (7), CAULIFLOWER (7), CAB-**

**BAGE (7), KALE (7), KOHLRABI (7), HORSE RADISH (7), LENTILS (3), MUSTARD GREENS (7), PARSLEY (21), PARSNIPS (7), RADISHES (7), RUTABAGAS (3), SALSIFY (7), SWISS CHARD (7), TURNIPS (3):** Aphids, Imported Cabbage Worm, Cabbage Looper — Use 1 to 2 pints per acre.

**CANTALOUPE (1):** Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2.8 to 3.2 pints per acre. Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons.

**CARROTS (7):** Aphids — Use 1 1/2 to 2 pints per 100 gallons. Leafhoppers — Use 2 1/2 pints per acre.

**CELERY (7):** Spider Mites, Aphids — Use 1 1/2 pints per acre.

**CHERRIES (3):** Black Cherry Aphid, Fruitree Leafroller — Use 1 1/2 pints. Cherry Fruit Fly, Eyespotted Bud Moth — Use 1 pint. Injury may occur on certain varieties of Sweet Cherries particularly in the Northwest.

**CHESTNUTS (0):** Mites — Use 0.8 pint.

**CITRUS — GRAPEFRUIT (7), LEMONS (7), LIMES (7), ORANGES (7), TANGERINES (7):** California Red Scale, Yellow Scale, Purple Scale, Black Scale, Soft Scale, Citricola Scale — Use 1 1/2 pints. Red Scale, Purple Scale — Use 1 1/4 pints per 100 gallons of water for light infestation and 2 pints per 100 gallons for moderate and heavy infestation. Thrips — Use 1 1/4 pints per 100 gallons of water per acre. Do not apply during full bloom.

**CLOVER (0):** Aphids, Leafhoppers, Lygus Bugs — Use 1 1/2 to 2 pints per acre. Apply to plants in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of hives.

**COLLARDS (7):** Harlequin Cabbage Bug — Use 1 pint per 100 gallons per acre. Leafhoppers, Leaf Miner — Use 1/2 pint per acre. Aphids — Use 1 1/2 to 2 pints per 100 gallons. Caterpillars — Use 2 pints per acre. Cabbage Looper, Diamond Back Moth, Imported Cabbage Worm — Use 2.8 pints per acre and combine with other recommended insecticide.

**CORN: sweet (5):** Sap Beetle — Use 1 1/2 pints per acre. Begin treatment when 10% of ears show silk. Repeat at 3 to 5 day intervals until 4 to 5 applications are made. Maize for grain or forage: Young Grasshoppers — Use 1 1/2 pints per acre. Apply when nymphs are young. Injury may occur in the whorl and silk stage, using this type Malathion product.

**COTTON (0):** Aphids, Leafhoppers, Whiteflies, Brown Cotton Leafworm, Cotton Leafperforator, Thrips, Lygus Bug — Use 1 1/2 to 2 pints per acre. Boll Weevil — Use 1 to 3 quarts per acre.

**COWPEA HAY (0):** Grasshoppers — Use 1 1/2 to 2 pints per acre.

**CUCUMBER (1), SQUASH (1), MELONS (1), PUMPKINS (3):** Aphids — Use 1 1/2 pints per acre. Do not apply unless plants are dry.

**CURRENTS (3):** Current Aphid, Imported Currentworm — Use 3.2 pints per acre. Japanese Beetle, Mites — Use 1.6 pints per 100 gallons.

**DANDELIONS (7):** Aphids — Use 1 1/2 to 2 pints per acre.

**EGGPLANTS (3):** Aphids — Use 1 to 1 1/2 pints per acre. Lace Bugs — Use 3 pints per acre.

**ENDIVE (7):** Aphids, Mites — Use 1 1/2 to 2 pints per 100 gallons.

**FIGS (3):** Vinegar Flies — Use 2 quarts plus 1 to 2 gallons Sulfured Molasses in a minimum of 300 gallons of water per acre.

**FILBERTS (0):** Apple Mealybug, Eye-spotted Bud Moth, Fibert Aphid, Scale (crawler stage), Tingids — Use 1 pint per 100 gallons.

**GARLIC (3), LEAKS (3), SHALLOTS (3):** Thrips, Aphids — Use 1 1/2 to 2 pints per acre.

**GOOSEBERRIES (3):** Current Aphid, Imported Currentworm — Use 3.2 pints. Japanese Beetle, Mites — Use 1.6 pints per 100 gallons.

**GRAIN SORGHUM (7):** Greenbugs — Use 1 1/2 pints per acre. Make full coverage application and repeat as necessary.

**GRASS PEST (3):** Mealybugs — Use 1 1/2 pints (200 to 275 gallons per acre). Emission may cause injury to foliage on some varieties. (Ribier, Italia, C. dinalis, Almeria.)

**GRASS (0), GRASS HAY (0), PASTURE (0), and RANGE GRASS (0):** Aphids, Leafhoppers, Grasshoppers — Use 1 1/2 to 2 pints per acre. Armyworms — Use 2 pints per acre.

**HONEYDEWS (1):** Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2.5 to 2.8 pints per acre. Aphids, Mites — Use 1 1/2 to 2 pints per acre.

**HOPS (7):** Aphids, Mites — Use 1 pint per acre.

**LESPEDEZA (0), LUPINES (0):** Grasshoppers — Use 1 1/2 to 2 pints per acre.

**LETTUCE (Head-7, Leaf-14):** Aphids, Leafhoppers — Use 2 pints per acre. Cabbage Looper, Mites — Use 2 1/2 to 3 pints per acre.

**MINT (7):** Adult Flea Beetles, Aphids, Caterpillars, Leafhoppers, Spider Mites — Use 1 to 1 1/2 pints per acre.

**MUSHROOMS (1):** Mites, Phorid & Sciarid Flies — Use 2 1/2 pints per 130 gallons of water OR 2 tbs. per 3 gallons of water per 1,000 square feet of bed.

**MUSKMELONS (1):** Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons. Cucumber Beetle — Use 2 pints per acre. Leafhoppers, Pickleworm — Use 2 1/2 to 2 3/4 pints per acre

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# MALATHION 57 EC EPA REG. NO. 34704-108

**NECTARINES (7):** Mites — Use 1 to 2 pints per acre. Plum Curculio — Use 2 pints per acre.

**OKRA (1):** Aphids — Use 1 1/2 pints per acre. Japanese Beetle — Use 2 to 2 1/2 pints per acre.

**ONIONS —** Including Green Onions (3): Onion Thrips — Use 1 1/2 pints per acre. Onion Maggots — Use 2 1/2 to 3 pints per acre.

**PEACHES (7):** Oriental Fruit Moth, Aphids — Use 2 pints. For Oriental Fruit Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved.

**PEANUTS (0):** Leafhoppers, Thrips — Use 1 1/2 pints per acre.

**PEARS (1):** Pear Psylla, Mealybug — Use 1 to 2 pints. Codling Moth, Leafrollers — Use 2 pints. For Codling Moth control apply at petal fall and every 10 to 14 days thereafter until control is achieved. Injury may occur under certain conditions in the Northwest on Bosc Pears.

**PEAS (3):** Aphids — Use 1 1/2 to 2 pints per acre. Forage may be fed to livestock.

**PECANS (0):** Pecan Bud Moth, Pecan Leaf Casebearer, Pecan Nut Casebearer, Pecan Phylloxera — Use 1.2 pints per acre. Aphids, Mites — Use 1 to 2 pints per acre.

**PEPPERS (3):** Aphids — Use 1 1/4 to 1 1/2 pints per acre. Pepper Maggots — Use 2 1/2 pints per acre.

**PLUMS (3), PRUNES (3):** Mealy Plum Aphids, Eye-spotted Bud Moths (Prunes Only) — Use 1 pint.

**POTATOES (0):** Aphids, Leafhoppers - Use 1 to 1 1/2 pints per acre.

**QUINCES (3):** Forbes Scale — Use 1 pint per acre. Mites — Use 1 to 2 pints per acre. Codling Moth, Oriental Fruit Moth, Plum Curculio — Use 2 pints per acre.

**RASPBERRIES (1):** Japanese Beetle, Leafhopper, Mites, Thrips — Use 1 1/2 pints per acre. Sap Beetle — Use 1 1/2 to 2 pints per acre. Aphids, Rose Scale — Use 3 pints per acre.

**RICE (7):** Rice Leafminer — Use 2 1/2 pints per acre. Apply when the eggs and larvae are abundant on the seedling rice and repeat as necessary. Rice Stink Bug — Use 1 to 1 1/2 pints per acre. Apply during the early milk and dough stage of growing rice. The rice herbicide, Propanil (Stam F-34 or Roque) should not be applied within 15 days of a Malathion treatment.

**SAFFLOWER (3):** Aphids, Grasshoppers, Lygus Bugs — Use 1 1/2 to 2 pints per acre.

**SOYBEANS (3):** Mexican Bean Beetle — Use 2 1/2 to 3 pints per acre. Green Cloverworm — Use 3 pints per acre.

**SPINACH (7):** Aphids — Use 2 pints per acre.

**STRAWBERRIES (3):** Aphids, Lygus Bugs, Spittle Bugs, Potato Leafhoppers, Strawberry Leafroller, Whitefly, Strawberry Root Weevil and Field Crickets — Use 1 1/2 to 3 pints per acre. For Strawberry Root Weevil apply to the soil surface before planting, work into the top 6 to 8 inches of soil.

**SUGAR BEETS (3):** Aphids, Mites — Use 1 1/2 to 2 pints per acre. Grasshoppers — Use 3 pints per acre.

**SWEET POTATOES (3):** Leafhoppers, Morning-glory Leafminers — Use 1 1/2 to 3 pints per acre.

**TOBACCO (7):** Aphids — Use 1 1/2 to 2 1/2 pints per acre.

**TOMATOES:** Aphids, Tomato Russet Mite — Use 1 to 3 pints per acre. Drosophila — Use 2 1/2 to 3 pints per acre. Do not apply within 1 day of harvest. California only: Armyworms, Tomato Fruitworm — Use 2 3/4 quarts per acre. Make full coverage application to foliage and fruit. Do not apply within 3 days of harvest.

**VETCH (7):** Omnivorous Leaf Tier, Pea Aphid, Vetch Bruchid — Use 1 1/2 to 2 pints per acre.

**WALNUTS (0):** Aphids, Mites — Use 0.2 to 0.4 pint per 100 gallons. Walnut Husk Fly — Use 0.4 to 0.6 pint per 100 gallons.

**WATERMELONS (1):** Aphids, Spider Mites — Use 1 1/2 pints per 100 gallons. Cucumber Beetle — Use 2 pints per acre. Leafhoppers, pickleworms — Use 2.5 to 2.75 pints per acre.

**GRAIN STORAGE:** For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, and box cars, before loading grain, apply 1 gallon of this material per 25 gallons of water making thorough application. Before applying spray, clean elevators and box cars thoroughly. Remove and burn all sweeping and debris.

**STORED GRAIN, FIELD AND GARDEN SEEDS:** For the protection of wheat, oats, rice, corn, rye, barley, grain sorghum and field or garden seeds, against Confused Flour Beetle, Rice Weevil, Granary Weevil, Sawtoothed Grain Beetle, Flat Grain Beetle, Red Flour Beetle, Rusty Grain Beetle, Lesser Grain Borer and as an aid in control of Indian Meal

Moth, apply 1 pint of MALATHION 57 EC in 2 to 5 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage. Good coverage is essential.

As a supplemental aid in the control of Indian Meal Moth, apply this material to the surface of clean or uninfested grain at the rate of 1/2 pint in 1 to 2 gallons of water per 1,000 square feet of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.

**PEANUT STORAGE:** For a residual storage wall and floor spray, machinery spray in treating truck beds and box cars before loading or storing peanuts. Use 1 pint of this material in 2 1/2 gallons of water and apply as a coarse spray at the rate of 2 gallons per 1,000 square feet of surface or to runoff. Clean warehouse thoroughly of trash and remains of old peanuts 1 to 2 weeks before new peanut crop is stored. Then, thoroughly spray the interior of the empty warehouse, especially cracks and protected places. Treat outside walls to a height of 6 to 8 feet and the ground to a distance of 6 feet from the warehouse.

**STORED PEANUTS:** For the protection of peanuts against Confused Flour Beetle, Flat Grain Beetle, Granary Weevil, Lesser Grain Borer, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle, Sawtoothed Grain Beetle, and as an aid in the control of Indian Meal Moth, apply 2 1/2 pints of this material in 5 gallons of water for each 15 tons of farmers stock peanuts. Apply as the peanuts are being loaded or turned into final storage. Good coverage is essential. As a supplemental aid in the control of Indian Meal Moth, apply 0.7 pint of MALATHION 57 EC in 2 gallons of water for each 1,000 square feet of surface. Apply the first surface treatment as soon as the bin is filled and leveled but not later than the first week in October. Apply the second surface treatment one month later, followed by subsequent treatments at 2-month intervals. Use a piston-pump type power sprayer, equipped with an agitator and with a nozzle capable of delivering a coarse spray. Use spray equipment with sufficient capacity and power to cover large surfaces thoroughly.

**STORED ALMONDS:** To protect stored shelled and in-shell almonds from attack by Indian Meal Moth and Merchant Grain Beetle, use 4 fluid ounces in sufficient water as almonds go into storage to treat 10,000 pounds of almonds. Use a suitable mechanical spray applicator that regulates the rate of application to the flow of almonds. Avoid spraying with a fine mist that drifts away. Shield the nozzle against wind and air currents.

**BAGGED CITRUS PULP: Residual Warehouse Spray:** Use 1 gallon of MALATHION 57 EC per 19 gallons of water. Apply spray at the rate of 2 gallons per 1,000 sq. ft. of surface or to run-off. Before bagged citrus pulp is stored, thoroughly clean warehouses by removing and burning all debris and sweepings. Thoroughly spray with sufficient pressure interior of empty warehouse (including cracks and protected places), outside walls to a height of 6 to 8 feet and ground to a distance of about 6 ft. from warehouse.

**STORED BAGGED CITRUS PULP:** For the protection of bagged citrus pulp against Almond moth, Angoumois grain beetle, Cigarette beetle, Confused flour beetle, Flat grain beetle, Mediterranean flour moth, Red flour beetle, Saw-toothed grain beetle, and as an aid in the control of Indian Meal Moth, apply 9 1/2 ounces per 1,000 sq. ft. of exposed bag surface area when bagged citrus pulp is stored. Make 2 separate spray applications initially when bagged citrus pulp is stored. Once each month thereafter throughout storage period use 7 oz. per gal. of water and apply at the rate of 2 gallons per 1,000 sq. ft. of exposed bag surface area. Do not use treated bags other than for dried citrus pulp.

NON-AGRICULTURAL USE REQUIREMENTS	
NON-AGRICULTURAL LANDS:	Grasshoppers — Use 1 1/2 to 3 pints per acre. Mirids (black grassbugs) — Use 1 1/2 pints per acre.
DROSOPHILA FLIES:	For control of Drosophila Flies in sod and around wineries and processing plants, paint all doors and window screens with a solution containing 3 1/2 ounces in 1 quart of water. Avoid contamination of wine, food, utensils, equipment and water. Do not apply this treatment in the edible product areas of food processing plants.
MOSQUITOES AND SMALL FLYING INSECTS:	Mix 1 pint of MALATHION 57 EC as directed to treat 1 1/4 to 2 acres (2 ozs. per 6,000 square feet for smaller areas). Use 2% to 5% spray or fog on lawns and areas outside the home such as patios. Dilute 1 part (1 pint) MALATHION 57 EC with 28 parts (3 1/2 gals) of water or kerosene type solvent such as fuel oil or diesel oil to make a 2% mix. For a 5% mix, dilute 1 part (1 pint) MALATHION 57 EC with 11 parts (1 3/8 gals) of water or similar oil solvents. Repeat application as necessary. Avoid applying oil-based formulations to plants as injury may occur. Do not apply where food crops may be contaminated. MALATHION 57 EC may cause spotting on automobile paint finish. Cars should not be sprayed directly. If accidental exposure occurs, the car should be washed immediately.
ANIMALS:	Apply as a complete coverage spray. Begin applications

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