

ACCEPTED

3-2-76

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
EPA REG. NO. 279-1053

Code  
1081Net Contents  
Gallons**MALATHION 5 E.C.****INSECTICIDE**

EPA REGISTRATION NO. 279-1053 ZA

ACTIVE INGREDIENTS:	BY WT.
Malathion; 0,0-Dimethyl dithiophosphate of diethyl mercaptosuccinate .....	56.00%
Xylene base aromatic petroleum solvent .....	34.00%
INERT INGREDIENTS: .....	10.00%
	100.00%

Contains 5.0 pounds Malathion per gallon or 10.0 oz. Avoirdupois per pint.

This product contains Premium Grade Malathion

**CAUTION****KEEP OUT OF REACH OF CHILDREN**

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin; wash thoroughly after using. Avoid contamination of feed and foodstuffs.

NOTE TO PHYSICIANS: Malathion may cause cholinesterase inhibition. Atropine is antidotal.

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.  
DO NOT STORE AT TEMPERATURES BELOW 0° F.

Do not use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

For Emergency Assistance Call: 716-735-3765

**ENVIRONMENTAL AND DISPOSAL CAUTIONS**

This product is toxic to fish, shrimp, crabs and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Do not re-use empty 1 and 5 gallon containers. Destroy them by perforating or crushing. Return drum to reconditioner or destroy it by perforating or crushing. Bury or discard in a safe place away from water supplies.

**DIRECTIONS 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 vegetable and field crops and a minimum of 20 gallons per acre on small fruits and tree crops. Use the designated amount in 100 gallons of water unless otherwise specified. Do not use in undiluted form. Observe days interval between last application and harvest indicated by number in ( ) following the crop.

**APPLES (3):** Codling Moth — Use 2 pints. Eyespotted Bud Moth, Forbes Scale, Woolly Aphid — Use 1 pint. Tent Caterpillars — Use 1 to 1½ pints. Mealybug — Use 1 to 2 pints. Green Apple Aphid, Rosy Apple Aphid — Use 1½ 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.

**CHERRIES (3):** Black Cherry Aphid, Fruittree Leafroller — Use 1½ pints. Cherry Fruit Fly, Eyespotted Bud Moth — Use 1 pint. Injury may occur on certain varieties of Sweet Cherries particularly in the Northwest.

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

**GRAPEFRUIT (7), LEMONS (7), LIMES (7), ORANGES (7), TANGERINES (7):** California Red Scale, Yellow Scale, Purple Scale, Black Scale, Soft Scale, Citricola Scale — Use 1½ pints. Red Scale, Purple Scale — Use 1¼ pints per 100 gallons of water for light infestation and 2 pints per 100 gallons for moderate and heavy infestation. Thrips — Use 1¼ pints per 100 gallons of water per acre. Do not apply during full bloom.

**GRAPES (3):** Mealybugs — Use 1½ pints (200 to 275 gallons per acre). Emulsion may cause injury to foliage on some varieties. (Ribier, Italia, Cardinals, Almeria).

**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.

**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.

**PLUMS (3), PRUNES (3):** Mealy Plum Aphid, Eyespotted Bud Moths (Prunes only) — Use 1 pint

**STRAWBERRIES (3):** Aphids, Lygus Bugs, Spittle Bugs, Potato Leafhoppers, Strawberry Leafroller, Whitefly, Strawberry Fruit Weevil and Field Crickets — Use 1½ to 3 pints per acre. For Strawberry Fruit Weevil apply to the soil surface before planting, work into the top 6 to 8 inches of soil.

**ALFALFA (0):** Grasshoppers, Pea Aphid, Spotted Alfalfa Aphid, Lygus Bugs, Leafhoppers, Alfalfa Weevil Larvae — Use 1½ to 2¼ pints per acre. Armyworms — Use 2 to 2¼ 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.

**ASPARAGUS (1):** Thrips — Use 1½ to 2 pints per acre. Asparagus Beetles — Use 2 pints per acre.

**BARLEY (7), OATS (7), RYE (7), WHEAT (7):** Young Grasshoppers, Greenbugs, English Green Aphid — Use 1½ to 2 pints per acre. Armyworms — Use 2 pints per acre

**BEANS (1):** Aphids, Cucumber Beetles — Use 2 to 2½ pints per acre. Mexican Bean Beetle, Leafhoppers — Use 1½ to 2½ pints per acre. Lygus Bug (Dry Beans — California) — Use 1½ to 2 pints per acre.

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MANUFACTURED IN U.S.A. BY

**FMC CORPORATION**

AGRICULTURAL CHEMICAL DIVISION

MIDDLETOWN, N.J.  
SUNO, CAYAKIMA, WA  
RICHMOND, VA

**BEETS (7):** Aphids — Use 1½ to 2 pints per acre.

**BROCCOLI (3), BRUSSELS SPROUTS (7), CAULIFLOWER (7), CABBAGE (7), TARD GREENS (7), TURNIPS (3):** Aphids, Imported Cabbageworm, Cab Use 1 to 2 pints per acre.

**CELERY (7):** Spider Mites, Aphids — Use 1½ pints per acre.

**CLOVER (0):** Aphids, Leafhoppers, Lygus Bugs — Use 1½ to 2 pints per acre. Apply to plants in bloom only in the evening or early morning when bees are not in the field or are not hanging on the outside of hives.

**CORN; sweet (5):** Sap Beetle — Use 1½ pints per acre. Begin treatment of ears show silk. Repeat at 3 to 5 day intervals until 4 to 5 applications. **Maize for grain or forage:** Young Grasshoppers — Use 1½ pints per acre when nymphs are young. Injury may occur in the whorl and silk stage, Malathion product.

**COTTON (0):** Aphids, Leafhoppers, Whiteflies, Brown Cotton Leafworm perforator, Thrips, Lygus Bug — Use 1½ to 2 pints per acre. Boll Weevil 3 quarts per acre.

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

**EGGPLANTS (3):** Aphids — Use 1 to 1½ pints per acre. Lace Bugs — Use 1 acre.

**GARLIC (3), LEEKS (3), SHALLOTS (3):** Thrips, Aphids — Use 1½ to 2 pints per acre.

**GRAIN SORGHUM (7):** Greenbugs — Use 1½ pints per acre. Make full cation and repeat as necessary.

**OKRA (1):** Aphids — Use 1½ pints per acre. Japanese Beetle — Use 1 acre.

**ONIONS — including Green Onions (3):** Onion Thrips — Use 1½ pints per acre. Onion Maggots — Use 2½ to 3 pints per acre.

**PEAS (3):** Aphids — Use 1½ to 2 pints per acre. Forage may be fed

**PEPPERS (3):** Aphids — Use 1¼ to 1½ pints per acre. Pepper Maggots 2 pints per acre.

**POTATOES (0):** Aphids, Leafhoppers — Use 1 to 1½ pints per acre.

**RICE (7):** Rice Leafminer — Use 2½ pints per acre. Apply when the egg abundant on the seedling rice and repeat as necessary. Rice Stink Bug 2 pints per acre. Apply during the early milk and dough stage of growth.

herbicide, Propanil (Stam F-34 or Roque) should not be applied with Malathion treatment.

**SWEET POTATOES (3):** Leafhoppers, Morningglory Leafminers — Use 1 acre.

**TOMATOES:** Aphids, Tomato Russet Mite — Use 1 to 3 pints per acre. Use 2½ to 3 pints per acre. Do not apply within 1 day of harvest.

to 2½ quarts per acre may be applied. Do not apply within 5 days of harvest.

**California only:** Armyworms, Tomato Fruitworms — Use 2¼ quarts per acre. Apply to foliage and fruit. Do not apply within 3 days of harvest.

**ORNAMENTALS:** Aphids, Whitefly, Mealybug — Use 1½ to 2 pints per acre. Birch Leafminer, Bagworms, Tent Caterpillars, Brown Soft Scale, Pine Scale — Use 2½ pints per 100 gallons of water. Apply to compound pines not use on Canaerti Junipers. The use of this material may cause injury including Boston, Maidenhair, and Pteris and some species of Trassula.

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

**STORED GRAIN, FIELD AND GARDEN SEEDS:** For the protection of v corn, rye, barley, grain sorghum and field or garden seeds, against Beetle, Rice Weevil, Granary Weevil, Sawtoothed Grain Beetle, Flat C Flour Beetle, Rusty Grain Beetle, Lesser Grain Borer, and Indian Meal Moth of Malathion 5 E.C. in 2 to 5 gallons of water per 1000 bushel grain is being loaded or turned into final storage. To protect stored grain from Indian Meal Moth apply this material to the surface of grain or

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Gallons

# ALATHION 5 E.C.

## INSECTICIDE

EPA REGISTRATION NO. 279-1053 ZA

INGREDIENTS:	BY WT.
Malathion; 0,0-Dimethyl dithiophosphate of diethyl mercaptosuccinate .....	56.00%
Hydrocarbon base aromatic petroleum solvent .....	34.00%
Other ingredients .....	10.00%
	100.00%

5.0 pounds Malathion per gallon or 10.0 oz. Avoirdupois per

product contains Premium Grade Malathion

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

If swallowed. Avoid breathing spray mist. Avoid contact with skin thoroughly after using. Avoid contamination of feed and fish.

DO NOT USE NEAR HEAT OR OPEN FLAME. STORE AT TEMPERATURES BELOW 60° F.

USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. STORE AT TEMPERATURES BELOW 60° F.

Use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

Agency Assistance Call: 716-735-3765

### ENVIRONMENTAL AND DISPOSAL CAUTIONS

This product is toxic to fish, shrimp, crabs and other wildlife. Keep away from lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where run-off is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning equipment, or disposal of wastes. Apply this product only as directed on this label.

This product is highly toxic to bees exposed to direct treatment or drift on crops. Protective information may be obtained from your State Agricultural Extension Service.

Re-use empty 1 and 5 gallon containers. Destroy them by puncturing or crushing. Return drum to reconditioner or destroy it by puncturing or crushing. Bury or discard in a safe place away from water supplies.

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

**BROCCOLI (3), BRUSSELS SPROUTS (7), CAULIFLOWER (7), CABBAGE (7), KALE (7), MUSTARD GREENS (7), TURNIPS (3):** Aphids, Imported Cabbageworm, Cabbage Looper — Use 1 to 2 pints per acre.

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

**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.

**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 Leaf-perforator, Thrips, Lygus Bug — Use 1 1/2 to 2 pints per acre. Boll Weevil — Use 1 to 3 quarts 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.

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

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

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

**OKRA (1):** Aphids — Use 1 1/2 pints per acre. Japanese Beetle — Use 2 to 2 1/3 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.

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

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

**POTATOES (0):** Aphids, Leafhoppers — Use 1 to 1 1/2 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.

**SWEET POTATOES (3):** Leafhoppers, Morningglory Leafminers — Use 1 1/2 to 3 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. If necessary up to 2 1/2 quarts per acre may be applied. Do not apply within 5 days of harvest. **California only:** Armyworms, Tomato Fruitworms — Use 2 3/4 quarts per acre. Make full coverage application to foliage and fruit. Do not apply within 3 days of harvest.

**ORNAMENTALS:** Aphids, Whitefly, Mealybug — Use 1 1/2 to 2 pints per 100 gallons of water. Birch Leafminer, Bagworms, Tent Caterpillars, Brown Soft Scale and Monterey Pine Scale — Use 2 1/2 pints per 100 gallons of water. Apply to completely cover. Do not use on Canaerti Junipers. The use of this material may cause injury to certain ferns, including Boston, Maidenhair, and Pteris and some species of Crassula.

**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.

**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 Indian Meal Moth, apply 1 pint of Malathion 5 E.C. in 2 to 5 gallons of water per 1000 bushels. Apply as the grain is being loaded or turned into final storage. To protect stored grains from attack by 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 1000 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.

**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 sweepings and debris.

**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 5 E.C. as directed to treat 1 1/4 to 2 acres (2 ozs. per 6000 sq. ft. for smaller areas). Use a 2% to 5% spray or fog on lawns and areas outside the home such as patios. Dilute 1 part (1 pint) Malathion 5 E.C. 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 5 E.C. 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 5 E.C. may cause spotting on automobile paint finish. Cars should not be sprayed directly. If accidental exposure occurs, the car should be washed immediately.

**FOOD HANDLING ESTABLISHMENTS —** Places other than private residences in which exposed food is held, processed, prepared or served.

**FOOD AREAS: APPLICATION LIMITED TO CRACK AND CREVICE TREATMENT ONLY;** Includes areas of receiving, storage, packing (canning, bottling, wrapping, boling) preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) and serving areas (when food is exposed and facility is in operation). To control Ants, Centipedes, Clover Mites, Cockroaches, Crickets, Earwigs, Silverfish, Spiders, Cigarette Beetles, Drug Store Beetles, Confused Flour Beetles, Indian Meal Moth, Rice Weevil and Sawtooth Grain Beetle — Use either a water solution or a deodorized kerosene solution. To make a water solution, dilute 3 tablespoonsful in 1 quart of water or 6 1/2 ounces per gallon. To make an oil solution, dilute 1 part in 19 quarts of solvent. Apply small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment of legs and bases, in conduits, motor housings, junction or switch boxes. Prior to application de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in "ON" position. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces. **APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.**

**SERVING AREAS —** Facilities where foods are served such as dining rooms, but excluding areas where foods may be prepared or held, apply as a spot treatment to selective surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.)

**Dealer Should Sell in Original Packages Only.**

**WARRANTY:** FMC warrants that this product, as of the time of sale by FMC, (1) conforms to the ingredient statement on the label, and (2) is reasonably fit for the purposes set forth in the Directions For Use. EXCEPT AS SO WARRANTED THE PRODUCT IS SOLD AS IS. FMC MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED.

