

PM 16 10163-21 1/3

ACCEPTED

JUN 15 1990

Under Registration Under the
Federal Insecticide, Fungicide, and
Rodenticide Act, as amended for the
pesticide registration under
EPA Reg. No. 10163-21

PROKIL MALATHION 8E

AGRICULTURAL INSECTICIDE

EMULSIFIABLE LIQUID

ACTIVE INGREDIENTS

BY WT.

Malathion (O,O-dimethyl phosphorodithioate
of diethyl mercaptosuccinate) 79.5%

INERT INGREDIENTS 20.5%

TOTAL 100.0%

Contains 8 lbs. Malathion per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

HARMFUL IF SWALLOWED. AVOID BREATHING OF SPRAY MIST. AVOID CONTACT WITH SKIN. WASH THOROUGHLY AFTER USING. AVOID CONTAMINATION OF FEED AND FOOD.

NOTE TO PHYSICIANS: Malathion, upon use, may cause cholinesterase inhibition. ATROPINE IS ANTIDOTAL.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates and aquatic life stages of amphibians. Do not apply directly to water except as specified on this label. 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.

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

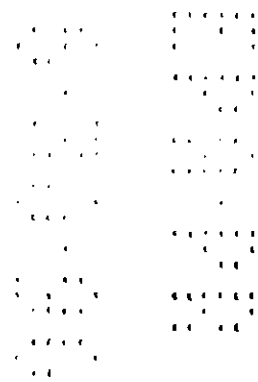
NET CONTENTS 1 GALLON

Gowan Company

E.P.A. Reg. No. 10163-21 AA
E.P.A. Est. No. 10163-AZ-1

See Attached Booklet
For Directions For Use

P.O. Box 5569
Yuma, AZ 85366-5569



PROKIL MALATHION 8E

Directions
For Use

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EPA Est. No. 10163-AZ-1

This is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

CAUTION - WORKER SAFETY: When applied to Citrus, Grapes and Peaches, no worker may enter treated area to engage in any activity requiring substantial contact with treated foliage for 1 day (24 hours) following application.

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

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings will not be understood by workers. Written and oral warnings must include the following information:

CAUTION - Area treated with Malathion on date of application: Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, see precautionary statements.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE water, food or feed by storage or disposal.

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: These 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.

In order that pesticide residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals, and do not apply closer to harvest than specified.

Consult State Agricultural Experiment Stations or the State Agricultural Extension Services for additional information as the timing of applications needed will vary with local conditions.

Four specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spray beginning operations. If mixture does not mix readily, but tends to separate as an oily layer, do not use as injurious to plants may result. Do not combine with volatile products unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly clean spray product with at least half of total water before adding available powder.

CHEMIGATION STATEMENT

Do not apply this product through any type of irrigation system.

Rates are given in terms of pints of Malathion E per acre. Unless otherwise specified, apply at the first sign of infestation and repeat at 7-10 day intervals as needed to maintain control, but observe use limitations for specific crops.

Minimum days between application and harvest are given in parenthesis after each crop name.

Application may be made by aircraft or by ground equipment according to the Directions for Dilution below. The amount of water needed to treat an acre varies, therefore the following directions are given to cover a broad range of application.

DIRECTIONS FOR DILUTION

Dilute Applications

Field and Row Crops: Use spray rate in 20 to 80 gallons of water per acre.

Trees and Vines: Use spray rate in 100 to 400 gallons of water per acre.

Concentrate Application

Field and Row Crops: Use spray rate in not less than 5 gallons of water per acre.

Trees and Vines: Use spray rate in 20 to 100 gallons of water per acre.

Air Application

Use spray rate in 5 to 20 gallons of water per acre. For trees and vines, use at least 10 gallons of water per acre.

TREES AND VINES

ALMONDS (None) Except California: Aphid, Peach twig borer, Red spider mite. Use 2 1/2 to 8 pints.

APPLES (3) Except California: Aphid, Eye spotted bud moth, Forbes scale, Mealybugs, Mites, Pear psylla, Tent caterpillar. Use 2 to 15 pints. Coding moth, Fruit tree leafroller, Plum curculio, Red banded leafroller, San Jose scale. Use 4 to 15 pints in dormant and delayed dormant sprays. Spray oil may be used for these applications. Follow spray oil manufacturer's directions. Do not apply in bloom period. May cause injury to McIntosh and related varieties.

APRICOTS (7): Aphid, Coding moth, European Lecanium scale, Orange for the Soft Crown scale, Terrapin scale. Use 4 to 10 pints.

AVOCADOES (7): Green house thrips, Latania scale, Diverseous looper, Soft brown scale, Orange tortrix. Use 4 to 8 pints.

BLACKBERRIES (1), BOYSENBERRIES (1), DEWBERRIES (1), LOGANBERRIES (1), RASPBERRIES (1): Japanese beetle, Leafhopper, Mites, Thrips. Use 1 to 4 pints. Aphid, Rose scale. Use 2 to 4 pints.

BLUEBERRIES (1): Aphid, Blueberry maggot, Blueberry fruit borer, Cherry fruitworm, Cranberry fruitworm, Japanese beetle, Plum curculio, Leafroller, Sharp nosed leafhopper, White Tussock moth. Use 1 1/2 to 2 1/2 pints.

BOYSENBERRIES: See blackberries.

CHERRIES (3): Black cherry aphid, Bud moth, Cherry fruit fly, Fruit tree leafroller, Lesser peach twig borer, apply to trunk and scaffold limbs at 21 day intervals beginning with emergence; Forbes and San Jose scale. Use 2 1/2 to 8 pints. May cause injury on certain varieties of sweet cherries in the Northeast.

CITRUS (GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, RUMQUATS) (7): California red scale, yellow scale, purple scale, black scale (single and off broods), soft scale, thrips, citrus scale, orange worm, aphids. Use 2 1/2 to 25 pints. Mediterranean fruit fly. Use 1 to 8 pints. Do not apply when trees are in bloom.

CRANBERRIES (3): *Bla shodded tree worms, Cranberry fruitworm, Leafhoppers, Spittlebug nymphs.* Use 1 to 2 1/2 pints per acre.

CURRENTS (1), GOOSEBERRIES (3): Mites, Japanese beetle. Use 1 to 2 pints. Currant aphid, Imported currant worm. Use 2 pints.

BATES (7)

DEWBERRIES: See blackberries. **FIGS (3):** One-eyed wasp, Vineyard wasp. Use 2 1/2 pints plus 1 to 3 gallons of water per acre.

FILBERTS (3): Apple mealybug, Eye spotted bud moth, Filbert aphid, Scale crawler, Maggot fungus. Use 2 1/2 to 3 pints.

GOOSEBERRIES: See blackberries.

GRAPES (3): Drosophila, European, Ruth Lecanium, Grape leafhopper, Japanese beetle, Leafhopper, Mealybug, Spider mites, Terrapin scale. Use 2 to 2 1/2 pints. Injury may occur to Rubra Cardinal and some varieties when applications are made after clusters appear.

GUAVA: See mango.

LOGANBERRIES: See blackberries.

MACADAMIA NUTS (3): Green stink bug. Use 1 to 15 pints.

MANGO (2), PASSION FRUIT (2), QUAVA (2): Fruit flies. Use 1/2 pint plus 1 pound partially hydrated yeast protein or dry yeast hydrolyzate.

NECTARINES: See peaches.

PASSION FRUIT: See mango.

PEACHES (7), NECTARINES (7): Black cherry aphid, Black peach aphid, Green peach aphid, Japanese beetle, Rusty plum aphid. Use 2 1/2 to 8 pints. Cottony peach scale, Lesser peach twig borer, Plum curculio, Ribwort, moth, San Jose scale, Terrapin scale. Use 5 to 9 pints. May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions.

PEARS (1): Mealybugs, Pear thrips, Spider mites, White aphid. Use 2 to 15 pints. Coding moth, Fruit tree leafroller, Red banded leafroller, Plum curculio. Use 4 to 15 pints in dormant and delayed dormant sprays. Spray oil may be used. Follow spray oil manufacturer's directions.

PECAN (None): Aphid, mites, pecan bud moth, pecan ear casebearer, pecan nut casebearer, pecan phylloxera. Use 2 1/2 to 12 1/2 pints.

PINEAPPLES (7): Mealybugs. Use 5 pints.

PLUMS (3), PRUNES (3): Eye spotted bud moth, Leaf curculio, Plum aphid, Lesser peach twig borer, Mealy plum aphid, European red mite, Two spotted mite. Use 5 to 10 pints. Aphid, San Jose scale. Use 5 to 10 pints in dormant and delayed dormant application. Spray oil may be used. Follow spray oil manufacturer's directions.

PRUNES: See plums.

RASPBERRIES: See blackberries.

WALNUTS (None): Aphid, Mites, Walnut husky, use at 12 1/2 pints.

FIELD AND ROW CROPS

ALFALFA, CLOVER (7) (2 pint rate): None (1 1/2 pints and less). Alfalfa weevil, larvae, aphids, armyworms, clover leaf weevil, grasshoppers, legume bugs, pea aphid, potato leafhoppers, spider mites, spittlebug, vetch bruchid. Use 1 1/2 pints. Use higher rate or armyworm control. For hard to control insects, use up to 2 pints per acre. Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives.

ALFALFA, CLOVER, VETCH GROWN FOR SEED (None): Aphids, leafhoppers, Lygus bugs. Use 1 to 1 1/2 pints. Apply to pints in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives.

AMARANTH: See dandelion.

ARRAGULUS: See dandelion.

ASPARAGUS (1): Asparagus beetle, thrips. Use 1 1/2 pints.

BARLEY: See small grains.

BEANS (1): Aphids, cucumber beetle, Japanese beetle, potato leafhopper, Mexican bean beetle, midrib beetle, spider mites, pea weevil. Use 1 1/2 pints.

BEANS (DRY) (CALIFORNIA ONLY) (1): Lygus bugs. Use 1 1/2 to 1 1/2 pints.

BEETS, GARDEN/SEED CROPS (7): Lygus bugs. Use 1 1/2 pints in 50 gallons of water per acre. Apply in seedling stage to hard seed stage. Repeat as needed to maintain control.

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MUSHROOMS (1) Horned and Scand flies. Use 1 1/2 pints per 100 gallons of water per acre or 1 tablespoon per 3 gallons of water per 1000 square foot bed. Make thorough application as soon as possible after picking. Repeat application as necessary, usually twice per week.

MUSTARD GREENS See cole crops.

NEW ZEALAND SPINACH See dandelion.

OATS: See small grains.

ORRA (1) Aphid, Japanese beetle. Use 1 1/2 pints.

ONIONS (2) Thrips. Use 1 to 2 pints. Onion maggot. Use 2 pints.

ORACH See dandelion.

PARSLEY See dandelion.

PARSNIPS See carrots.

PEANUTS (Sweet) Leafhoppers. Use 1 pint.

PEAS (3 days for harvest, 7 days for storage use) Aphid, pea weevil. Use 1 to 2 1/2 pints. If storage is to be for livestock use 1 to 1 1/2 pints.

PEPPERMINT (7), SPEARMINT (7) Adult flea beetle. Leafhoppers. Use 1 pint.

PEPPERS (2) Aphids, pepper, pepper, night. Use 1 to 2 pints.

POTATOES (Maine) False chinch bug, flea beetle, mealybugs. Use 1 pint. Aphids, blister beetles. Use 3 pints.

PUMPKINS See cucumber.

PURSLANE See dandelion.

RADISHES See carrots.

RAPE GREENS See cole crops.

RAPINI See cole crops.

RHUBARB See dandelion.

RICE (7) Rice leaf miner, rice sheath bug. Use 1 1/2 pints. Do not apply product within 15 days of malathion treatment.

RUTABAGAS (7) Aphids. Use 1 to 2 pints per acre.

RYE See small grains.

SAFFLOWER (2) Aphid, grasshopper, fly. Use 1 to 1 1/2 pints.

SALSIFY See carrots.

SHALLOTS See garlic.

SMALL GRAINS (BARLEY, OATS, RYE, WHEAT) (7) Armyworms, long horn grasshopper, grasshoppers, greenbugs. Use 1 to 1 1/2 pints.

SPINACH (7) Aphids. 1 1/2 pints.

SORREL See dandelion.

SOYBEANS (Maine) Grasshoppers, Japanese beetle, Mexican bean beetle. Use 2 pints.

SPEARMINT See peppermint.

SQUASH See cucumbers.

STRAWBERRIES (2) Aphids, field mice, leaf beetles, potato leafhoppers, spider mites, spottedbugs, strawberry leafhopper, strawberry root weevil, thrips, whitefly. Use 1 1/2 to 2 pints. For strawberry root weevil control, make applications to the soil surface before planting and work into the top 8 to 10 inches.

SUGAR BEETS (3 days, 7 days if tops are to be used for feed or food) Aphids. 1 to 2 pints. Grasshoppers. 2 pints.

SWEET POTATOES (7) Leafhoppers. Use 1 to 1 1/2 pints.

Morning Glory Leafminer Use 1 1/2 pints.

SWISS CHARD See dandelion.

TOBACCO (7) Aphids. Use 1 to 1 1/2 pints.

TOMATOES (1) Aphids, spider mites. Use 1 1/2 pints. Drosophila flies. Use 2 pints in full coverage application to fruit and foliage.

YETCH See alfalfa.

WATERCRESS See dandelion.

WHEAT See small grains.

ORNAMENTALS

Dosages given are for use in 100 gallons of dilute spray. Aphids, European pine shoot moth, four lined leaf bug, Japanese beetle, adult mealybugs, milkweed, potato leafhopper, rose leafhopper, scurfy scale, spider mites, springtails, soybugs, varnished plant bug, thrips, whitefly, euonymus scale, lace scale, oyster shell scale, 1 pt. Azalea scale, bagworms, birch leafminer, boxwood leafminer, Fletcher scale, Florida red scale, juniper scale, magnolia scale, oak kermes, pine leaf scale, saw caterpillar, 1 1/2 pt. Black scale crawler, Monterey pine scale, 1 3/4 pt. Pine needle scale, oak scale, 2 1/2 pt. For oyster shell, Fletcher, juniper, oak kermes and pine needle scales, apply when scales/crawlers have settled on foliage.

CAUTION: Avoid use on certain ferns including Boston, Maidenhair and Phoenix, as well as some species of Cressata and Carex in Juniper.

MOSQUITO CONTROL

MOSQUITOES, FLIES, AND SMALL FLYING INSECTS: For use by treated personnel as a 2 1/2 to 5% Malathion fog, aerosol or space spray. To make a 2 1/2% solution dilute MALATHION B in 1 to 45 parts of water. Fog or dust it. When using aerosol-type solvent as carrier, dilute 1 part of MALATHION B in 45 parts of mixture consisting of 4 parts aerosol-type solvent and 1 part aromatic hydrocarbon-type solvent. Apply 0.5 to 2.0 gallons finished spray per acre. For a 5% solution dilute 1 part MALATHION B in 18 parts of mixture using similar solvents. Apply 0.24 to 1.8 gallons finished spray per acre.

MOSQUITO LARVAE IN STANDING WATER: Apply MALATHION B at the rate of 8 fluid ounces (approximately 1/3 lb actual Malathion) per acre. Use this dosage only in intermittently flooded areas, stagnant water, temporary rain ponds, and log ponds. Mix in sufficient water or oil to obtain even coverage when applied by air or ground equipment. Repeat applications as necessary. Avoid applying oil based formulations to valuable ornamental plants as injury may occur. Keep out of any fish bearing waters.

IN AND AROUND BUILDINGS

For use in and around buildings where house domestic animals, around homes, around yards and meat processing plants. Do not use in commercial food preparation areas or in edible products areas of processing plants. Apply spray at rate of 1 gal per 100 sq ft on painted surfaces and 2 gal per 1000 sq ft on unpainted surfaces where flies, gnats or congregate. In most cases, adding molasses or sugar to the spray prolongs the insecticidal activity of Malathion and serves as a fly attractant.

CAUTION: Avoid contamination of raw milk, equipment and water. Avoid contamination of feed and food products, also drinking fountains and feed troughs. Remove calves under one month of age and lactating dairy animals from buildings before treating.

DROSOPHILA FLIES AND DRIED FRUIT BEETLES: On or around fruit and vegetable dumps, mix 7 1/2 pt in 100 gal of water and apply at a strength of 8 to 12 gal of spray per 100 sq ft. For best results dumps should be 18 to 24 inches deep. Do not feed treated fruit and vegetables.

FLY CONTROL

STRAIGHT MALATHION SPRAYS		MALATHION BAIT SPRAYS			
Amount of Spray	Amount of Molasses or Syrup	Amount of Carrier Spray	Amount of Malathion B	Sugar Soln.	Unpolluted Molasses or Corn Syrup
2 1/2 gal	1/2 cup	2 1/2 gal	1/2 cup	cup	1 cup
12 gal	1 1/2 pt	12 gal	1 1/2 pt	2 1/2 lb	1 qt
100 gal	1 1/2 gal	100 gal	1 1/2 gal	20 lb	2 gal

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the results to be obtained or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage resulting from its misuse as such, or in combination with other materials.

Rev. 10-69

RD, MALATHION SOLUTION, ORM-A, NA 2783

STORED GRAIN, FIELD AND GARDEN SEEDS: For the protection of wheat, oats, rice, corn (field and pop), rye, barley, grain sorghum and sunflower grain and field or garden seeds, against Confused Flour Beetle, Rice Weevil, Granary Weevil, Sawtoothed Grain Beetle, Lesser Grain Borer, and as an aid in control of Indian Meal Moth, apply 10 ounces of MALATHION B E in 2.5 gallons of water per 1000 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 the material to the surface of clean or uninfested grain at the rate of 5 ounces 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.

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