

7 Day. Harvested from the ground and stored in a cool, dry place.

CORN - Apply to the ground and stored in a cool, dry place.

COTTON - Apply to the ground and stored in a cool, dry place.

CUCUMBERS, PUMPKIN, SQUASH - Apply to the ground and stored in a cool, dry place.

GRASS - Grass hay pastures and Rangeland (barn grass, canary grass, fescue, orchard grass, red top, timothy and yellow foxtail).

LETTUCE, ENDIVE - Apply to the ground and stored in a cool, dry place.

MELONS - Apply to the ground and stored in a cool, dry place.

PEPPERS - Apply to the ground and stored in a cool, dry place.

POTATOES - Apply to the ground and stored in a cool, dry place.

SMALL GRAINS (barley, oats, rye, wheat).

SPINACH - Apply to the ground and stored in a cool, dry place.

STRAWBERRIES - Apply to the ground and stored in a cool, dry place.

TOMATOES - Apply to the ground and stored in a cool, dry place.

PASTURE AND RANGELAND - Apply to the ground and stored in a cool, dry place.

ORNAMENTALS - Apply to the ground and stored in a cool, dry place.

CAUTION: Aerial application of this product is restricted to the following conditions:

MOSQUITO CONTROL

MOSQUITOES, FLIES, AND SMALL FLYING INSECTS: This product is effective against mosquitoes, flies, and small flying insects. It is used for mosquito control in pastures, rangelands, and ornamentals.

Apply to the ground and stored in a cool, dry place. This product is used for mosquito control in pastures, rangelands, and ornamentals. It is effective against mosquitoes, flies, and small flying insects.

CAUTION: Aerial application of this product is restricted to the following conditions:

DROSOPHILA FLIES and DRIED FRUIT BEETLES.

FLY CONTROL

Apply to the ground and stored in a cool, dry place. This product is used for fly control in pastures, rangelands, and ornamentals. It is effective against Drosophila flies and dried fruit beetles.

NOTICE ON CONDITIONS OF SALE

BEST AVAILABLE COPY

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Cowan Company
P.O. Box 5696
Yuma, AZ 85364

Gentlemen:

Subject: Prokil Malathion 8E
EPA Registration No. 10163-21
Your Amended Labeling Application Dated March 26, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable, provided that you:

1. Submit five (5) copies of your final printed labeling incorporating the following corrections before you release the product for shipment.
2. You have referenced the labeling under EPA Registration No. 7001-114 for the application rates proposed for your subject product. To coincide with those labeling rates, the following changes are needed.
 - a. Peaches and Nectarines--Specify dormant and delayed dormant with directions for use with oil.
 - b. Kohlrabi--Specify up to 2 pints rather than up to 2 1/2 pints.
 - c. Pumpkins--Specify a three (3) day preharvest interval (PHI) and an application rate of up to 1 3/4 pints instead of a one (1) day PHI and an application rate up to 2 pints.
 - d. Shallots--Specify a seven (7) day PHI instead of a three (3) day PHI.
 - e. Rutabagas--Specify an application rate of up to 2 pints instead of up to 2 1/2 pints.

54618;I:Mautz:LM-9:KENCO:12/15/88:12/27/88:SG:VQ:aw

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

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If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

Label
center & left panels

NET WEIGHT
GALLONS

DEC 20 1988

Product of Gowan Company
Product of Gowan Company
Registered under EPA Reg. No.

10163-21

PROKIL MALATHION 8E

AGRICULTURAL INSECTICIDE EMULSIFIABLE SOLUTION

WARNING - WORKER SAFETY

When using this product, wear the following protective clothing: long-sleeved shirt, long pants, shoes, and socks. Wear a respirator if you are in a confined space or if you are using the product in a way that may cause you to breathe the vapors. Do not eat, drink, or smoke while using this product. Wash your hands thoroughly after handling this product.

CAUTION

STORAGE AND DISPOSAL

Store this product in its original container. Do not use any other container. Do not use this product if the container is damaged or leaking. Dispose of this product in accordance with the instructions on the label. Do not pour this product down the drain or into any body of water.

DIRECTIONS FOR USE

Always
before

CHEMICAL STATEMENT

AGRICULTURAL INSECTICIDE EMULSIFIABLE SOLUTION
NET WEIGHT
GALLONS
10163-21

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

When using this product, wear the following protective clothing: long-sleeved shirt, long pants, shoes, and socks. Wear a respirator if you are in a confined space or if you are using the product in a way that may cause you to breathe the vapors. Do not eat, drink, or smoke while using this product. Wash your hands thoroughly after handling this product.

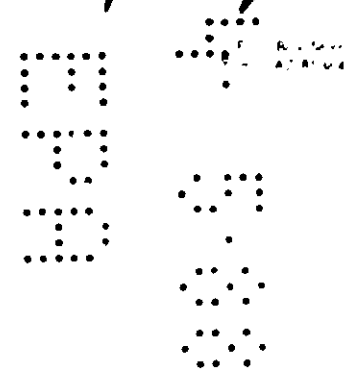
ENVIRONMENTAL HAZARDS

This product is highly toxic to fish and aquatic invertebrates. Do not apply this product near water. Do not apply this product to water bodies. Do not apply this product to crops that are intended for human consumption.

NET WEIGHT GALLONS

Gowan Company

TRADE MARK
REGISTERED



Rates are given in terms of pints of Malathion 8E 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 applications.

Directions for Dilution

Dilute Applications

Field and Row Crops: Use specified rate in 20 to 60 gallons of water per acre.

Trees and Vines: Use specified rate in 100 to 800 gallons of water per acre.

Concentrate Application

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

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

Air Application

Use specified 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): Aphid, Peach twig borer, Red spider mite: Use 2½ to 8 pints.

APPLES (3): Aphid, Eye spot bud moth, Forbes scale, Mealybugs, Mites, Pear psylla, Tent caterpillar: Use 2 to 15 pints. Codling 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 manufacturers directions. Do not apply in bloom period. May cause injury to McIntosh and related varieties.

APRICOTS (7): Aphid, Codling moth, European lecanium scale, Orange tortrix, Soft brown scale, Terrapin scale: Use 4 to 10 pints.

AVOCADOES (7): Green house thrips, Latania scale, Omnivorous looper, Soft brown scale, Orange tortrix: Use 4 to 9 pints.

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

BLUEBERRIES (1): Aphid, Elderberry maggot, Blueberry tip borer, Cherry fruitworm, Cranberry fruitworm, Japanese beetle, Plum curculio, Leafrollers, Sharp-nosed leafhopper, White Tussock moth: Use 16 to 24 pints.

CHERRIES (1) - 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 2½ to 8 pints. May cause injury on certain varieties of sweet cherries in the Northeast.

CITRUS (ORANGEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, KUMQUATS)(7): California red scale, yellow scale, purple scale, black scale (single and off-breed), soft scale, thrips, citricola scale, orangeworm, aphids: Use 7 to 25 pints. Mediterranean fruit fly: Use 1 to 8 pints. Do not apply when trees are in bloom.

CRANBERRIES (3): Blackheaded fireworms, Cranberry fruitworm, Leafhoppers, Spittlebug nymphs: Use 1 to 2½ pints per acre.

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

DAIES (7): Nitidulid beetle: Use 2 pints.

DEWBERRIES: See blackberries.

FIGS (3): Dried fruit beetles, Vinegar flies: Use 2½ pints plus 1 to 2 gallons sulfured releases per acre.

FILEBERTS (3): Apple malnutrition, Fire spotted bud moth, Filbert aphid, Scale (crawler stage), thrips: Use 2½ to 3 pints.

GOOSEBERRIES: See currants.

GRAPES (3): Prosephila, European fruit lecanium, Grape leafhopper, Japanese beetle, leafhopper, Malnutrition, Spider mites, Terrapin scale: Use 2 to 2½ pints. Injury may occur to Ribier, Cardinal and Almeria varieties when applications are made after clusters appear.

GUAVA: See mango.

LOGANBERRIES: See blackberries.

MACADAMIA NUTS (6): Green stink bug: Use 3 to 15 pints.

MANGO (2), PASSION FRUIT (2), GUAVA (2): Fruit flies: Use ¾ pint plus 1 pound partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.

NECTARINES: See peaches.

PASSION FRUIT: See mango.

PEACHES (7), NECTARINES (7): Black cherry aphid, Black peach aphid, Green peach aphid, Japanese beetle, Leaf plum aphid: Use 2½ to 9 pints. Cottony peach scale, Lesser peach tree borer, Plum curculio, Oriental fruit moth, San Jose scale, Terrapin scale: Use 5 to 9 pints. May be mixed with spray oil. Follow spray oil manufacturer's directions.

PEARS (1): Mealybugs, Pear psylla, Spider mites, Woolly aphid: Use 2 to 15 pints. Codling moth, Fruittree leafroller, Redbanded 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.

PECANS (None): Aphid, mites, pecan bud moth, pecan leaf casebearer, pecan nut casebearer, pecan phylloxera: Use 2½ to 12½ pints.

PINEAPPLES (7): Mealybugs: Use 5 pints.

PLUMS (3), PRUNES (3): Eyespotted bud moth, Leaf curl plum aphid, Lesser peach tree 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 husk fly: Use 4 to 12½ 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, lygus bugs, pea aphid, potato leafhoppers, spider mites, spittlebug, vetch bruchid: Use 1-1 1/2 pints. Use higher rate for armyworm control. For hard to control insects, use up to 2 pints per acre. Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives.

ALFALFA, CLOVER, VETCH GROWN FOR SEED (None): Aphids, leafhoppers, Lygus bugs: Use 1/2 to 1 1/2 pints. Apply to plants 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.

ARRAGULA: See dandelion.

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

BARLEY: See small grains.

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

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

BEETS, GARDEN (SEED CROP) (7): Lygus bugs: Use 1 1/2 pin in 5-10 gallons of water per acre. Apply in seedball stage to hard seed stage. Repeat as needed to maintain control.

BEETS, TABLE (7): Aphids, beet armyworm, blister beetles, flea beetles: Use 2 1/2 pints.

BROCCOLI: See cole crops.

BRUSSELS SPROUTS: See cole crops.

CABBAGE: See cole crops.

CARROTS (7), PARSNIPS (7), RADISHES (7), SALSIFY (7), HORSE RADISH (7): Aphids, diamond-back moth, flea beetle, leafhoppers: Use 2 pints.

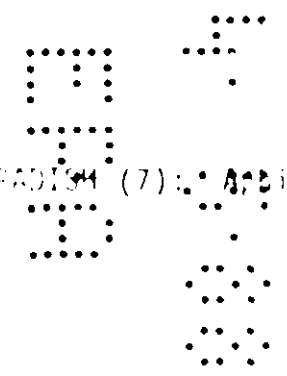
CARILFLOWER: See cole crops.

CELERY (7): Aphids, spider mites: Use 1 to 1 1/2 pints.

CELTOSE: See dandelion.

CHEERIL: See dandelion.

CHINESE BRUSSELS: See cole crops.



CHINESE CABBAGE: See cole crops.

CHINESE MUSTARD: See cole crops.

CHRYSANTHEMUM (EDIBLE-LEAVED AND GARLAND): See dandelion.

CLOVER: See alfalfa.

COLE CROPS (Brassicaceae crop group: BROCCOLI, CHINESE BROCCOLI, RAPINI, BRUSSELS SPROUTS, CHINESE CABBAGE [BOK CHOY AND NAPA], CABBAGE, CHINESE MUSTARD, CAULIFLOWER, COLLARDS, KALE, KOHLRABI, MUSTARD GREENS, RAPE GREENS) (7 Days, except 3 days on broccoli): Aphids, cabbage loopers, flea beetles, imported cabbageworm: Use 1 1/2 to 2 1/2 pints.

COLLARDS: See cole crops.

CORN (5): Aphid, corn rootworm adults, sap beetles, thrips, young grasshoppers: Use 1 pint. CAUTION: Injury may occur in whorl and silk stages with emulsifiable liquids.

CORN SALAD: See dandelion.

COTTON (None): Aphids, brown cotton leafworm, cotton leaf perforator, leafhoppers, spider mites, whitefly: Use 1 to 4 pints. Cotton fleahoppers, fall armyworms, boll weevils, grasshoppers, garden webworms and lygus: Use 1 1/2 to 4 pints.

CUCUMBERS (1), MELONS (1), PUMPKINS (1), SQUASH (1): Aphids, cucumber beetle, cutworms, darkling ground beetles, leafhoppers, pickleworm, spider mites, squash vine borer, thrips: Use 1 3/4 pints. Use up to 2 pints on pumpkins. For vine borer, apply weekly to stems and vines at base of plant. Do not apply unless plants are dry.

DANDELIONS, PARSLEY, SWISS CHARD, WATERCRESS, AMARANTH (LEAFY AMARANTH, CHINESE SPINACH, TAMPALA), ARRUCOLA (ROQUETTE), CELTUCE, CHERVIL, CORN SALAD, EDIBLE-LEAVED CHRYSANTHEMUM, GARLAND CHRYSANTHEMUM, DOCK (SORREL), FLORENCE FENNEL, ORACH, GARDEN PURSLANE, WINTER PURSLANE, FINE SPINACH, NEW ZEALAND SPINACH, RHUBARB (7 days, except 21 days for parsley): Aphid: Use 1 to 2 pints,...

DOCK: See dandelion.

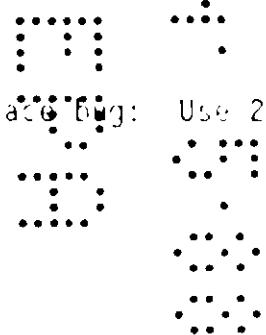
EGGPLANT (3): Aphid, spider mites: Use 3/4 to 3 1/2 pints. Lace Bug: Use 2 to 3 1/2 pints.

ENDIVE: See lettuce.

FENNEL: See dandelion.

FINE SPINACH: See dandelion.

GARLIC (3), LEeks (3), SHALLOTS (3): Aphids, thrips: Use 1 to 2 pints.



GRASS AND RANGELAND (SUCH AS BARN GRASS, BERMUDA, CANARY GRASS, FESCUE, ORCHARD GRASS, RED TOP, TIMOTHY AND YELLOW FOXTAIL) (1): Aphids, grasshoppers, leafhoppers: Use 1 to 1½ pints. Apply in sufficient water for good coverage or use 1½ pints plus 1 gallon of diesel fuel oil per acre by means of an airplane or turbine-blower type sprayer.

HOPS (7): Aphid: ½ to 1½ pint.

HORSERADISH: See carrots.

KALE: See cole crops.

KOHLRABI: See cole crops.

LEEKs: See garlic.

LENTILS (3): Aphids: 1 pint.

LETTUCE (14 days for leaf lettuce; 7 days for head lettuce), ENDIVE (7): Aphids, alfalfa looper, leafhoppers, mites: Use 2 pints.

MELONS: See cucumber.

MUSHROOMS (1): Phorid and Sciariid flies: Use 1½ pints per 130 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.

OKRA (1): Aphid, Japanese beetle: Use 1½ pint.

ONIONS (3): Thrips: Use 1 to 2 pints. Onion maggot: Use 2 pints.

ORACH: See dandelion.

PARSLEY: See dandelion.

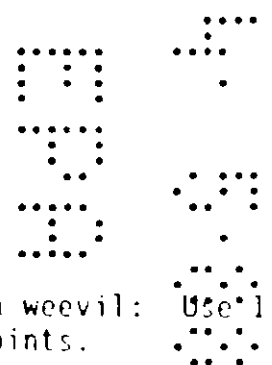
PARSNIPS: See carrots.

PEANUTS (None): Leafhoppers: Use 1 pint.

PEAS (3 days for harvest; 7 days for forage use) Aphid, pea weevil: Use 1 to 2½ pints. If forage is to be fed to livestock, use 1 to 1½ pints.

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

PEPPERS (3): Aphids, pepper maggot: Use 1½ pints.



POTATOES (None): False chinch bugs, leafhoppers, mealybugs: Use 1 pint.
Aphids, blister beetles: Use 3 pints.

PUMPKINS: See cucumber.

PULSTAKE: See dandelion.

RADISHES: See carrots.

RAPE GREENS: See cole crops.

RAPINI: See cole crops.

RHUBARB: See dandelion.

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

RUTABAGAS (3): Aphids: Use 1 to 2 1/2 pints per acre.

RYE: See small grains.

SAFFLOWER (3): Aphid, grasshopper, lygus: Use 1 to 1 1/4 pints.

SALSIFY: See carrots.

SHALLOTS: See garlic.

SMALL GRAINS (BARLEY, OATS, RYE, WHEAT) (7): Armyworms, English grain aphids, grasshoppers, greenbugs: Use 1 to 1 1/4 pint.

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

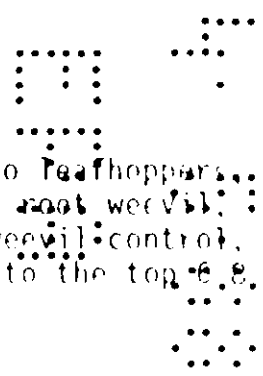
SORREL: See dandelion.

SOYBEANS (None): Grasshoppers, Japanese beetle, Mexican bean beetle: Use 2 pints.

SPEARMINT: See peppermint.

SQUASH: See cucumbers.

STRAWBERRIES (3): Aphids, field crickets, lygus bugs, potato leafhoppers, spider mites, spittlebugs, strawberry, leafroller, 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 6-8 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 (3): Leafhoppers: Use 1 to 1 3/4 pints. Morning Glory Leafminer: Use 1 3/4 pint.

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.

VETCH: See alfalfa.

WATERCRESS: See dandelion.

WHEAT: See small grains.

