CUCUMBERS, PUMPKIN, SQUASH

GRASS. Grass hay pastures and RangeLand: barn grass, canary grass, brome, orchard grass, red top, timothy, and yellow foxtail.

LETTUCE, ENDIVE

MELONS

PEPPERS

POTATOES

SMALL GRAINS: barley, oats, rye, wheat

SPINACH

STRAWBERRIES

CAUTION: A

MOSQUITO CONTROL

MOSQUITOES, FLIES, AND SMALL FLYING INSECTS:

DROSOPHILA FLIES and DRIED FRUIT BEETLES.

FLY CONTROL

NOTE ON CONDITIONS OF SALE
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.
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
PROKIL MALATHION 8E

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN
CAUTION

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

ENVIRONMENTAL HAZARDS

Gowan Company
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 tables. The amount of water to be used 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**

APPLES (None): Aphid, Peach twig borer, Red spider
- Use 2 to 8 pints.

APPLIES (3): Aphid, Eye spot; Leaf spot, Mites, Pear psylla, Ventral caterpillar: Use 7 to 15 pints. Colliding moth, Fruit tree leafhopper, Plum curculio, Red Endid leafhopper, 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.

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


BLACKBERRIES (1), BOYSBERRIES (1), BERRY HEDGES (1), LOGANBERRIES (1)
- Use 1 to 4 pints. Aphid. Peach scale: Use 2 to 4 pints.


CRANBERRIES: Use 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 budburst), Forbes and San Jose scale: Use 2 to 8 pints. May cause injury on certain varieties of sweet cherries in the Northeast.

CHERRIES (3): California red scale, yellow scale, purple scale, black scale (single and off-trunk), soft scale, mealy bug, cottony scale, orangeworm, aphids: Use 7 to 25 pints. Mediterranean fruit fly: Use 1 to 6 pints. Do not apply when trees are in bloom.

CRANBERRIES (3): Blackheaded fireworms, Cranberry fruitworm, Leafhoppers, Spittlebug nymphs: Use 1 to 2 pint per acre.


DATING (7): Mitidulid beetle: Use 2 pints.

DEWBERIES: See blackberries.

FIGS (3): Dried fruit beetles, Vinegar flies: Use 2 to 7 pints plus 1 to 2 gallons cultural releases per acre.

FOLIAR (8): Apple scab, brown spotted bud moth, filbert aphid, Scale (canker scale), trunk: Use 2 to 3 pints.

GOOSEBERRIES: See currants.

GRAPES (3): Prothiphila, European fruit locust, Grape leafhopper, Japanese beetle, Leafhopper, Mealybug, Spur mites, Terrapin scale: Use 2 to 5 pints. Injury may occur to Rubies, Cardinal and Alberosa varieties when applications are made after clusters appear.

GUAVA: See mango.

HOSANGEBERRIES: See blackberries.

HYACINTH (6): Green stink bugs: Use 3 to 15 pints.

MANGA (7), PASSION FRUIT (7), GUAVA (2): fruit flies: Use 3/4 pint plus 1 pound partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.

NECTARIANES: See peaches.

PASSION FRUIT: See mango.

PEACHES (7), NECTARIANES (7): Black cherry aphid, Black peach aphid, Green peach aphid, Japanese beetle, Taph: pears aphid: Use 2 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 sprays and foliar feeds, or foliar feeds. 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.

PEARS (10): Aphid, Mites, pecan bud moth, pecan leaf casebearer, pecan nut casebearer, pecan phylloxera: Use 2½ to 12½ pints.

PINEAPPLES (7): Mealybugs: Use 5 pints.

PEACHES (3), PERSIMONS (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] pints and less]):** Alfalfa weevil larvae, aphids, armyworms, clover leaf weevil, grasshoppers, lygus bugs, pea aphid, potato leafhoppers, spider mites, spittlebug, vetch bruchid: Use 1-2 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 to 1.5 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.

**ARRACOLPA:** See dandelion.

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

**BEANS (Dry) (CALIFORNIA ONLY) (1):** Lygus bugs: Use 1 to 1.5 pints.

**BEETS, GARDEN (SEED CROP) (7):** Lygus bugs: Use 1 pint 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 pints.

**BROCCOLI:** See cole crops.

**BRUSSELS SPROUTS:** See cole crops.

**CABBAGE:** See cole crops.

**CARROTS (7), CABBAGE (7), CASPIAN (7), CALIFORNIA (7), COLFAX (7):** Aphids, diaprepes root weevil, flea beetle, leafhoppers: Use 2 pints.

**CABBAGE:** See cole crops.

**CELERY (7):** Aphid, copper�: Use 1 to 1.5 pints.

**CHERIES:** See dandelion.

**CHERRY:** See dandelion.

**CUCUMBER:** 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 (1): crop group: Broccoli, Chinese broccoli, rapini, Brussels sprouts, cabbage [Bok Choy and Napa], cabbage, Chinese mustard, cauliflower, collards, kale, kohlrabi, mustard greens, rapeseed (7 Days, except 3 days: in broccoli): Aphids, cabbage loopers, flea beetles, imported cabbageworm; Use 1 to 2 pints.

COLLARDS: See cole crops.

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

CORN SALAD: See dandelion.

COTTON (Boll): Aphids, brown cotton leafworm, cotton leaf perforator.
leafhoppers, spider mites, whitefly; Use 1 to 4 pints. Cotton fleahoppers, fall armyworm, roll weevils, grasshoppers, garden webworms and lygus; Use 1 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, TANGAR), APPOLINA (RGUETTE), 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): Aphids; Use 1 to 2 pints.

DOCK: See dandelion.

EGGPLANT (3): Aphids, spider mites; Use 3/4 to 3 pints. Late blight; Use 2 to 3 pints.

ENDIVE: See lettuce.

FENNEL: See dandelion.

FINE SPINACH: See dandelion.

GARLIC (3), LEeks (3), MUSHROOMS (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.

HORSE RADISH: 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 Sciarid 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.


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

PUMPKINS: See cucumber.

PUMPKINSEED: See dandelion.

PUMPKINSILKS: See carrots.

RAPE SEEDS: See cole crops.

RAPID: See cole crops.

RHUBARB: See dandelion.


RUTABAGAS (3): Aphids: Use 1 to 2.5 pints per acre.

RYE: See small grains.

SAFFLOWER (3): Aphid, grasshopper, lygus: Use 1 to 1.5 pints.

SAUSHI: See carrots.

SHEETLE: See garlic.

SMALL GRAINS (BARLEY, OATS, RYE, WHEAT) (7): Armyworms, English grain aphids, grasshoppers, greenbugs: Use 1 to 1.5 pints.

SPINACH (7): Aphids: 1 pint.

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 leafhopper, spider mites, spittlebugs, strawberry, leafroller, strawberry root weevil, thrips, whitefly: Use 1.5 to 2 pints. For strawberry root weevil control, make applications to the soil surface before planting and work into the top 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.


SWISS CHARD: See dandelion.

TOMATO (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.