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KILL-KO

MALATHION CONCENTRATE

Kills: Aphids, red spiders, bagworms, whiteflies, fleas, and many other insects that harm gardens and/or annoy pets and livestock.

ACTIVE INGREDIENTS:	
Malathion*	50.0%
INERT INGREDIENTS:	
Xylene Range Aromatic Solvent	39.4%
Other Inerts	10.6%
TOTAL	100.0%

*O,O-Dimethyl dithiophosphate of diethyl mercaptosuccinate

CAUTION (12 pt.)

KEEP OUT OF REACH OF CHILDREN (8 pt.)

ACCEPTED

JUN 26 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 70-124

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 70-124
EPA Est. No. :D-KY-1

NET CONTENTS
(8 oz., Pint, Quart, Gallon)

Manufactured by
RIGO COMPANY
BUCKNER, KENTUCKY 40010

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using. Harmful if swallowed. Avoid contamination of feed or foodstuffs. Keep out of reach of children and domestic animals.

STATEMENT OF PRACTICAL TREATMENT: If Swallowed: Contains petroleum solvent, do not induce vomiting. Call a physician immediately. If inhaled: Remove person to fresh air at once. If In Eyes: Flush with plenty of water for 15 minutes. Call physician. If On Skin: Wash thoroughly with soap and hot water. Note To Physician: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Keep out of lakes, streams, or ponds. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply where runoff is likely to occur. 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry location away from heat, flame, direct or indirect sunlight.

DISPOSAL: Do not reuse empty container. Wrap container and put in trash collection.

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APPLICATION RATES

Apply specified rate in one gallon of water. Thorough, full coverage application should be made. Begin application when pests first appear and repeat as necessary. Observe the Days to Harvest restriction (interval in days between last application and harvest), if applicable.

VEGETABLE CROPS

Approximately 1/2 gallon of diluted spray will be required per 50 feet of vegetable row. Do not exceed maximum dosage rate.

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Asparagus	Asparagus aphid	2	1	
	Asparagus beetle			
	Thrips	1½-2		
Beans (Lima, Green, Snap, Navy, Red Kidney, Wax, Cowpeas, Blackeyed peas)	Leafhoppers	1½	1	
	Mites			
	Japanese beetle	1½-2		
	Lygus bugs			
	Mexican bean beetle			
	Aphids	2		
	Cucumber beetle			
Beets	Aphids	1½-2	7*	*If tops are feed to live-stock.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kale, Mustard Greens	Aphids	1-2	7	*For best results, combine with other recommended insecticides.
	Cabbage Looper		(except Broccoli)	
	Imported cab- bageworm			
	Diamondback moth	2*	3 (Broccoli)	
Carrots	Aphids	1½-2	7	
	Leafhoppers	2½		
Celery Anise	Aphids	1½	7	To be applied to fresh leaves and stalks only.
	Spider mites			
	Leafhoppers			
Collards	Harlequin cab- bage bug	1	7	*For best results, combine with other recommended insecticides.
	Aphids	1½-2		
	Cabbage looper*			
	Diamondback moth*			
	Imported cab- bageworm*			

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Vegetable Crops Continued

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Corn (Sweet and Pop)	Aphids	1½	5	Caution: Injury may occur in the whorl and silk stages. For control of sap beetles, begin spraying when 10% of the ears show silk. Repeat at 3-5 day intervals until 4-5 applications have been made.
	Sap Beetle			
	Thrips			
Cucumbers, Melons, Pumpkins, Squash	Aphids	1½	1 (except pumpkins)	Do not apply to plants unless foliage is dry.
	Leafhoppers			
	Pickle worm			
	Spider mites	3 (pumpkins)		
	Thrips			
Cucumber beetles	3			
Squash vine borer				
Eggplant	Aphids	1	3	
	Spider mites			
	Lace bug	3		
Endive	Aphids	1½-2	7	
	Spider mites			
Garlic	Aphids	1½-2	3	
	Thrips			
Horseradish, Kohlrabi	Aphids	1-2	7	
Leeks	Aphids	1½-2	3	
	Onion maggot flies	2½		
	Thrips	3		
Lentils	Cowpea aphid	1½	3	
	Pea aphid			
Lettuce	Aphids	2	7 (Head) 14 (Leaf)	
	Leafhoppers			
	Spider mites			
	Cabbage looper	3		
Mint	Aphids	1½	7	
	Flea beetles			
	Leafhoppers			
	Spider mites			
Okra	Aphids	1½	1	*Apply before pods form.
	Japanese beetle	2		
	Spider mites*			
Onions (incl. green onions)	Onion maggots	1½-2½	3	
	Thrips	1½-2		
Parsley, Parsnips, Swiss Chard	Aphids	1½-2	21 (Parsley), 7 (all others)	
Peas	Aphids	1½	3*	*If vines are used as animal feed, 7-day interval must be observed.
	Pea weevil	1½-2		

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Vegetable Crops Continued

Crop	Insect	Dosage tsp./Gal	Days to Harvest	Comments		
Peppers	Aphids	1-2½	3			
	Pepper maggots	2½				
Potatoes	Aphids	1-2	0			
	Leafhoppers					
	Mealybugs					
	False Chinch bug	1½				
Radishes	Aphids	1½-2	7			
Rutabagas	Aphids	1½	3			
Salisfy	Aphids	1½-2	7			
Shallots	Aphids	1½-2	3			
	Thrips					
Spinach	Aphids	2	7			
Sweet Potatoes	Leafhoppers	1½-2	3			
	Morningglory leaf miner	2½-3				
Tomatoes	Aphids	1½	1			
	Spider mites					
	Tomato russet mite	1-2				
	Drosophila	2½				
	Armyworms	2 3/4			3	California only
	Fruit worms					
Turnips	Aphids	1-2	7			
	Cabbage looper					
	Imported cab- bage worm					
	False chinch bug	2				
	Harlequin bug					

FRUIT CROPS

For orchard pests such as Codling moth, Apple maggot, Oriental fruit moth, or Plum curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Apples	Aphids (Wooly apple, Green apple, Rosy apple)	1-1½	3	May cause injury to McIntosh and Cortland varieties if applied within 4 weeks of harvest.
	Bud moth	1		
	Forbes scale			
	Mealybug	1-2		
	Mites (European, red, clover, two-spotted, Willamette)			

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Fruit Crops Continued

Crop	Insect	Dosage tsp.Gal.	Days to Harvest	Comments
Apples cont.'d	Eastern tent caterpillar San Jose Scale	1½-2		
	Codling moth Plum Curculio Red-banded leaf roller	2		
Apples (Dormant and delayed dormant sprays)	Aphids (Wooly apple, Green, apple, Rosy apple) Mites, Red- banded leaf- roller	1 + 8 tsp. Super- ior oil		Make full coverage dormant or delayed dormant sprays only.
	Scales (Forbes, Putnam, San Jose)	1½ + 16 tsp. Super- ior oil		
Apricots	Aphids Codling moth European fruit lecanium Orange tortix Soft brown scale Terrapin scale	1½-2	7	For codling moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved.
Blackberries Boysenberries Dewberries Loganberries Raspberries	Aphids Japanese beetle Leafhoppers Mites Rose scale chaf- ers Thrips	1½	1	
Blueberries	Blueberry maggot	1	1	For use in the Northeast only.
	Japanese beetle	3/4	1	Spray when first berries turn blue, then at 10 day inter- vals as long as infestation persists.
	Cherry fruitworm	1	1	
	Cranberry fruit- worm	1	1	Apply at egg hatch, repeat every 4-5 days until a total of four sprays have been made.
	Plum Curculio	1½-2	1	

KILL-KO MALATHION CONCENTRATE

Fruit Crops Continued

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Cherries	Bud moth	1	3	May injure foliage on some varieties of sweet cherries, particularly in the Northwest.
	Cherry fruit fly			
	Japanese beetle			
	Forbes scale	1-1½		
	San Jose scale			
	Black cherry aphid	1½		
Cherries (Dormant and delayed dormant sprays)	Fruit tree leafroller	2		
	Lesser peach tree borer			
Citrus (Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangerines and Tangelos)	Aphids	1 + 8	7	Apply at dormant, post bloom and/or summer spray periods when control measures are needed. Do not apply when trees are in bloom.
	Scale insects	tsp. Superior oil		
	Scale insects (Black, California red, Citricola, Purple, Soft brown, yellow)	1-1½		
Currants Goose berries	Florida purple scale	2		
	Florida red scale			
Figs	Current aphid	1	3	
	Mites			
	Imported currantworm	1½		
Grapes	Japanese beetle			
	Leafhoppers			
Grapes	Mealybugs	4 + 8-16	3	May injure Ribier, Italia, Cardinal and Almeria varieties if applied after grape clusters appear. *Make full coverage spray when newly hatched nymphs crawl over vines, usually shortly after bloom.
	Spider mites	tsp. unsulfurized molasses		
	European fruit lecanium*	1½		
	Japanese beetle			

Fruit Crops Continued

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Nectarines	Spider mites	1-2	7	*Apply at petal fall, and every 10-14 days thereafter until control is achieved.
	Aphids	1½		
	Plum Curculio*	2		
Peaches	Aphids(Black cherry, Black peach, Green peach, Rusty Plum)	1	7	*Apply at petal fall and every 10-14 days thereafter until control is achieved. **Make full coverage sprays after hatching, about the end of June.
	European red mite			
	Japanese beetle			
	Spider mites			
	Oriental fruit moth*	2		
	Plum Curculio*			
	Cottony Peach scale**	2		
European fruit lecanium**				
Terrapin scale**				
Peaches (Dormant and delayed dormant)	Aphids	1½ + 8 tsp. Superior oil		Make full coverage dormant or delayed dormant sprays only.
	Peach twig borer Scale insects	2 + 16 tsp. Superior oil		
Pears	Aphids	1-1½	1	May cause injury on Bosc pears under certain conditions in the Northeast. *Apply at petal fall and every 10-14 days thereafter until control is achieved.
	Mealy bugs	1-2		
	Mites			
	Pear psylla			
	Codling moth	2		
	Forbes scale Fruit tree leafroller Plum curculio* Red-banded leafroller San Jose scale			
Pears (Dormant and delayed dormant)	Aphids	1½ + 8 tsp. Superior oil		Make full coverage dormant or delayed dormant sprays only.
	Leafrollers Pear psylla Scale insects	2 + 16 tsp. Superior oil		

Fruit Crops Continued

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Plums Prunes	Mealy plum aphid	1-1½	3	*Apply at petal fall and every 10-14 days thereafter until control is achieved.
	Plum Curculio*			
	Spider mites	1½		
	Lesser peach tree borer	2		
Plums Prunes (Dormant and delayed dormant)	Aphids Scale insects	1 + 8 tsp. Superior oil		Make full coverage dormant or delayed sprays only.
Quinces	Forbes scale	1	3	Make full coverage sprays when crawlers are present, about 1 st or 2 nd cover and last half of July.
	Spider mites	1-2	3	
	Codling moth Oriental fruit moth	2	3	Apply at petal fall and every 10-14 days thereafter until control is achieved.
	Plum curculio			
Strawberries	Aphids	1½	3	
	Spider mites			
	Potato leaf-hopper	1½-2½		
	Strawberry leafroller			
	Strawberry root weevil			
	Whiteflies			
	Field crickets	1½-3		
Lygus bug Spittle bugs Thrips				

NUT CROPS

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Almonds	Aphids	1-2	0	
	Spider mites			
	Peach twig borer	1-1½	0	
Chestnuts	Mites	1	0	

Nut Crop Continued

Crop	Insect	Dosage tsp./Gal.	Days to Harvest	Comments
Filberts	Apple mealy- bug Eye-spotted bud moth Filbert aphid Scale (crawler) Tingids	1	3	
Macadamia Nuts	Green stink bug	1½	0	
Pecans	Aphids Spider mites	1½-2	0	
	Pecan bud- moth Pecan Phyl- loxera Pecan leaf casebearer	1½	0	Apply when buds begin to dev- elop, repeat as needed.
	Pecan nut casebearer	1½	0	Apply as 1 st generation eggs begin to hatch (late April- May).
Walnuts	Aphids Mites	½	0	
	Walnut husk fly	½-1	0	Apply 1 st spray when adult flight is regular in late July-early August; the 2 nd , 25 days later.

ORNAMENTALS (Outdoors)

Injury may occur on ferns, viburnams, lantana, crassula and canerti juniper fol-
lowing the use of this product. Slight injury has also been reported on boston,
pteris, and maidenhair ferns, petunias, small leaf spirea, white pine and maples.
Under extreme heat, drought and disease conditions this product may cause slight
damage to elms.

Site	Insect	tsp./Gal.	Comments
Trees	Aphids	Mealy bugs	
Shrubs	Bagworms	Potato leafhoppers	
Flowers	Birch leaf miner	Rose leafhopper	
	Boxwood leaf miner	Spider mites	
	European pine shoot moth	Springtails	
	Four-lined leaf bug	Spruce mites	
	Japanese beetle adult	Tarnished plant bug	
	Lace bug	Tent caterpillar	
		Thrips	
		White flies	
	Woolly aphids		

Ornamentals Continued

Site	Insect	Site	Dosage tsp./Gal.	Comments
Trees	Azalea scale	Monterey pine scale	2	Apply when scale trawlers have settled on foliage.
Shrubs	Black scale	Oak kermes		
Flowers	Euonymus scale	Oyster shell scale		
Cont'd.	Fletcher scale	Pine leaf scale		
	Florida red scale	Scurfy scale		
	Juniper scale	Soft brown scale		
	Magnolia scale			
	Pine needle scale		4	
	Wax		4	Apply in spring when crawlers are active. Repeat 1 or 2 full-coverage sprays at 10-day intervals.

HOUSEHOLD USE

DOMESTIC PESTS

Insect Controlled	Dosage	Directions for Use
Fleas, Lice, Ticks, on Dogs and Cats	1 oz. (2T.) per Gal.	Wet animal thoroughly. Closely examine pet before retreating. Repeat treatment in 2 to 3 weeks, if necessary. Do not treat animals under one month of age.
Fleas and Ticks as Premise Treatment	5 oz. (10T.) per Gal.	Apply one gallon mixture per 1000 square feet of pet quarters, yards, and lawns. Remove debris and manure before spraying. Repeat treatment in 3 to 4 weeks, if necessary.

IN AND AROUND HOMES, DAIRIES, FOOD PROCESSING PLANTS*

Note: Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.

Insect Controlled	Dosage	Directions for Use
Ants	3% Solution in water* or deodorized kerosene**	Apply by means of a coarse spray, paint brush, or pressurized spray to window sills, baseboards, drainboards, under sinks, stoves, cracks, crevices, etc. *To make water solution: dilute 4 table-spoonfuls of this product in 1 qt. of water, or 7½ oz. per gal. **To make kerosene solution: dilute 1 part of this product with 16 parts of a mixture consisting of 4 parts kerosene type solvent and 1 part aromatic hydrocarbon type solvent.
Centipedes		
Clover mites		
Cockroaches		
Crickets		
Earwigs		
Silverfish		
Scorpions		
Spiders		
Pantry pests: (cigarette beetle, drug store beetle, flour beetle, Indian meal moth, rice weevil, saw-toothed grain beetle)		

Household Uses continued

Insect Controlled	Dosage	Directions for Use
Bedbugs	2 to 4 tablespoons per gal. deodorized kerosene	Apply lightly to all mattress surfaces in sufficient quantity to "mist" the fabric and generously to beds and woodwork, with special care taken to wet all possible hiding places.
Carpet beetle Clothes moths	3% water or oil-based spray or 3% Pressurized spray	Apply to baseboards, floors, (including areas under carpets, along margins of carpets and in closets), behind radiators and other lint accumulation areas, closet shelves and walls, and infested surface areas of carpeting. Application to these areas will also control clothes moth larvae. If clothing or woolen goods are to be protected from clothes moth attack, they should receive regular treatments with a suitable moth-proofing material.

*Malathion sprays may damage certain finished surfaces and fabrics. Before applying to these areas, apply mixture to a small hidden area and check for damage or staining. Use special caution in applying oil-based mixtures to asphalt tile or sponge-backed carpet.

Avoid contamination of food, utensils, milk, milk equipment and water.

Avoid applying directly to ornamental plants in the home.

MOSQUITO CONTROL

Mosquito larvae in standing water - Apply this product at the rate of 1 pint (approximately $\frac{1}{2}$ pound of Malathion) per acre. Mix in sufficient water or oil when applied by air or ground equipment. Outdoors - mosquitos, flies, and small-flying insects. As a space spray, dilute this product 1 to 45 parts water, fuel oil or diesel oil. Apply at the rate of 8 oz. per 1000 sq. ft. Do not apply in food or crop areas. Avoid applying oil-based formulations to valuable ornamental plants (such as Boston and Maidenhair and Pteris Fern, and some species of Crasula) as injury may occur.

LIVESTOCK

BEEF AND NON-MILKING CATTLE:

Lice: Dilute 4 ounces of this product with 3 gallons of water. Treat animals thoroughly.

Ticks: Dilute 4 to 9 ounces of this product with 3 gallons of water. Treat animals thoroughly. Repeat applications at 2 week intervals if needed.

Horn Fly: Dilute 4 to 7 ounces of this product with 3 gallons of water. Apply on back and neck of the animals and repeat applications at 10-14 day intervals. Do not treat animals under one month of age.

Livestock continued

When applying sprays, avoid contamination of feed, food containers, and watering troughs.

Do not apply to lactating dairy animals or non-lactating dairy animals within 2 weeks of freshening unless otherwise noted.

Back Rubbing Devices: For the reduction of lice, apply a mixture of 2% Malathion (using this product) in fuel oil. There may also be a reduction in horn flies. These devices should be made continuously accessible one to each 35-45 head of cattle and retreated every 2-3 weeks.

DO NOT MAKE ACCESSIBLE TO LACTATING DAIRY ANIMALS OR NON-LACTATING DAIRY ANIMALS WITHIN 2 WEEKS OF FRESHENING.

HOGS:

Lice: Dilute 4 ounces of this product with 3 gallons of water. Treat animals, pens and litter thoroughly.

Sarcoptic Mange: Dilute 4 ounces of this product with 3 gallons of water. Use extreme care to cover all body surfaces including the inside of the ears. Second treatment may be necessary in 10 days. Hogs should be kept out of sun and wind for a few hours after treatment.

SHEEP AND GOATS:

Lice, Ticks, and Keds: Dilute 4 ounces of this product with 3 gallons of water. Treat animals thoroughly. Repeat application after 2 or 3 weeks if needed. Do not apply to milk goats.

FIELD AND GARDEN SEEDS

Field and garden seeds can be protected against the Cereal Leaf Beetle, Confused Flour Beetle, Flat Grain Beetle, Granary Weevil, Indian Meal Moth, Lesser Grain Borer, Maize Weevil, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle and Saw-toothed Grain Beetle. Use a dosage of $\frac{1}{2}$ pint of this product in 1-2 $\frac{1}{2}$ gallons of water per 440 bushels of seed. This product may be used under the requirement of the Khapra beetle quarantine, where water or diesel oil emulsions are indicated, as prescribed by the current quarantine instructions.

GRAIN

(Barley, Corn, Grain Sorghum, Oats, Rice, Rye, Wheat)

RESIDUAL SPRAY - BEFORE STORING GRAINS: For the control of Cereal Leaf Beetle, Confused Flour Beetle, Flat Grain Beetle, Granary Weevil Indian Meal Moth, Lesser Grain Borer, Maize Weevil, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle, Saw-toothed Grain Beetle. For residual truck beds, box cars and ships' holds before loading grain, use 1 pint per 3 gallons of water (or 6 oz. per 1 gallon of water) and make thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris.

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Grain continued

GRAINS GOING INTO SOTRAGE: Apply 1 pint of this product in 2-5 gallons of water per 875 bushels. Apply as the grain is being loaded or turned into final storage.

AFTER GRAINS ARE STORED: To protect stored grains from attack by Indian Meal Moth, apply this product to the surface of clean or uninfested grain at the rate of $\frac{1}{2}$ pint in 1-2 gallons of water per 875 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.

RESIDUAL SPRAY - BOX CARS FOR LOADING AND TRANSPORTING BAGGED FLOUR AND PACKAGED CEREALS: For the control of Confused Flour Beetle, Rice Weevil, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle, Red Flour Beetle, Rusty Grain Beetle, Lesser Grain Borer, Indian Meal Moth and mite pests infesting empty box cars into which bagged flour and packaged cereals are to be loaded and transported, apply this product as follows:

1. Clean the box car thoroughly, then remove and burn all sweepings and debris.
2. Spray walls and floor to the point of run-off with either 1 gallon of this product in 22 gallons of water or 1 gallon of this product in 16 $\frac{1}{2}$ gallons of deodorized kerosene. (The deodorized kerosene solution should be made up of 4 parts solvent).
3. Let the sprayed box car stand empty with the doors open until the spray has thoroughly dried.
4. Line the walls and floor of the box car with kraft paper before loading.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.