

4-99

Best Available Copy
BONIDE

3-12-74

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MALATHION S O L U T I O N

FOR FLOWERS, EVERGREENS, SHRUBS,
SHADE TREES, FRUITS AND VEGETABLES

EPA Reg. No. 4-99

ACTIVE INGREDIENTS:

- *Malathion.....50%
- Xylene.....39%
- INERT INGREDIENTS:.....11%
- *O,O-Dimethyl dithiophosphate of
diethyl mercaptosuccinate

CAUTION: KEEP OUT OF REACH OF CHILDREN
(See side panel cautions)

- 8 OZ. NET
- or 1 PINT "
- or 1 QUART "
- or 1 GALLON "

ACCEPTED

MAR 12 1974

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO. 4-99 SUBJECT
TO ATTACHED COMMENTS.



BONIDE MALATHION 50%E controls a great diversity of insects including aphid, spider mites, scales as well as a wide range of other sucking and chewing insects attacking fruits, vegetables and ornamentals - a total of over one hundred insects on more than ninety crops.

D I R E C T I O N S

For proper mixing, the spray tank should be at least 3/4 filled with water before MALATHION 50%E is added. Shake sprayer occasionally or agitate to keep spray particles in suspension during application. Follow spray schedule given in SPRAY CHART below.

SPRAY CHART APPEARS HERE

CAUTION: Harmful if swallowed or inhaled. Avoid breathing spray mist or contact with skin, eyes or clothing. May be absorbed through skin. Do not use on household pets or humans. Wash hands and contaminated clothing before reuse.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from area treated. Apply this product only as specified on this label.

Keep container tightly closed to prevent evaporation. Do not use, pour, spill, or store near heat or open flame. Do not reuse container. Bury in a safe place.

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

Buyer's guarantee limited to label claims

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STORED GRAINS - For the protection of stored grains (wheat, oats, rice, corn, rye, barley, grain sorghum), and field or garden seeds against 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 for control of cereal leaf beetles, if they are present, apply as follows:

RESIDUAL SPRAY - BEFORE STORING GRAINS: For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ships' holds before loading grain, apply 1 gallon per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc., thoroughly. Remove and burn all sweepings and debris. Wear respirator. Wear protective clothing to minimize skin exposure.

GRAINS GOING INTO STORAGE: Apply 1 pint in 2-5 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage.

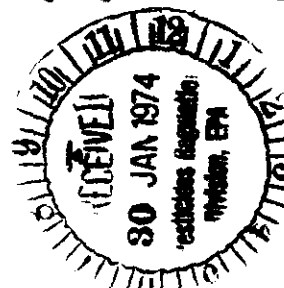
AFTER GRAINS ARE STORED: To protect stored grains from attack by indian meal moth, apply to the surface of clean or uninfested grain at the rate of $\frac{1}{2}$ pint in 1-2 gallons of water per 1,000 square feet of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately 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 as follows:

1. Clean the box cars 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 MALATHION 50%E in 25 gallons of water, or one gallon of MALATHION 50% E in 19 gallons of deodorized kerosene. (The deodorized kerosene solution should be made up of 4 parts kerosene type solvent plus one part aromatic hydrocarbon type solvent.)
3. Let the sprayed box car stand empty with the doors open until the spray has thoroughly dried.

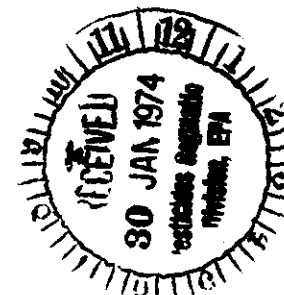


CROP	INSECTS	WHEN TO APPLY	AMOUNT
ASPARAGUS	asparagus beetle, asparagus aphid	Make 2 or more applications as needed up to 1 day of harvest.	2½ tsp./gal. water, or 2½ pints in 25/50 gals. water per acre
	thrips		2 tsp./gal. water, or 2 pts./25/50 gals. water per acre
BEANS (Lima, Green, Snap, Navy, Red, Kidney, Wax, Cowpeas, Black- eyed Peas)	Mexican bean beetle, spider mites, Japanese beetle, aphids, cucumber beetle	Make 2 or more applications as needed up to 3 days of harvest	1½ tsp./gal. water, or 1½ pts. in 25/50 gals. water per acre
TOMATOES	spider mites, aphids		
PUMPKINS	aphids, mites, squash vine borers*	*Make full coverage applications weekly to stems and vines at base of plants. Consult Cooperative Agricultural Extension Service for proper timing.	3 tsp./gal. water, or 3 pts. in 25/50 gals. water per acre
EGGPLANT	aphids, spider mites lace bugs		4 tsp./gal. water, or 4 pts. in 25/50 gals. water per acre
ONIONS	thrips, onion maggots	2½ tsp./gal. water, or 2½ pts. in 25/50 gals. per acre	3 tsp./gal. water, or 3 pts. in 25/50 gals. water per acre
PEPPERS	aphids pepper maggots		
RUTABAGAS	aphids	Make 2 or more applications as needed up to 3 days of harvest	1½ tsp./gal. water, or 1½ pts. in 25/50 gals. water per acre
SWEETPOTATO	leafhoppers, morning- glory leafminer		3 tsp./gal. water, or 3 pts. in 25/50 gals. water per acre
POTATOES (White or Irish)	false chinch bugs, aphids, leafhoppers, mealybugs	Make 2 or more applications as needed up to day of harvest	1½ tsp./gal. water, or 1½ pts. in 25/50 gals water per acre
LETTUCE	leafhoppers, aphids, cabbage looper	Make 2 or more applications as needed up to 7 days of harvest on head lettuce (14 days on leaf lettuce)	4 tsp./gal. water, or 4 pts. in 25/50 gals. water per acre



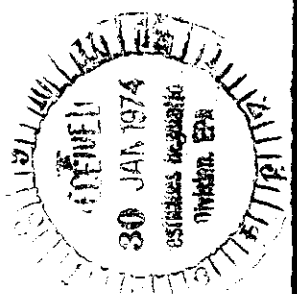
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CROP	INSECTS	WHEN TO APPLY	AMOUNT
CORN (Field, Sweet and Pop)	aphids, sap beetle, thrips	Make 2 or more applications as needed up to 5 days of harvest. Do not apply in the whorl or silk stage as injury may occur.	2 tsp./gal. water, or 2 pts. in 25/50 gals. water per acre
	grasshoppers	Make full coverage application to foliage when nymphs are young.	
	corn rootworm adults (for protection of silks)	Make full coverage application to foliage when adult beetles become abundant.	
MELONS (Cantaloupes, Casabas, Crenshaws, Honeydews, Honey Balls, Muskmelons, Persians, Watermelons (and hybrids of these))	aphids, spider mites, cucumber beetles	Make 2 or more applications as needed up to 1 day of harvest. Do not apply unless plants are dry. *Make full coverage applications weekly to stems and vines at base of plants. Consult Agric. Cooperative Extension Service for proper timing.	3 tsp./gal. water, or 3 pts. in 25/50 gals. water per acre
SQUASH	aphids, spider mites, pickleworm, squash vine borers*, cucumber beetles		
CUCUMBER	aphids, spider mites, cucumber beetles		
COLE CROPS AND LEAFY VEGETABLES Broccoli, Brussels sprouts, Cabbage, Collards, Dandelions, Kale, Kohlrabi, Mustard Greens, Parsley, Swiss Chard, Turnips, Watercress, Cauliflower	aphids, flea beetles (on mustard greens only), diamond back moth caterpillars (on cauliflower, collards, brussels sprouts and broccoli only), harlequin cabbage bug (on collards only)	Make 2 or more applications as needed up to 7 days of harvest. (Turnips (including tops) & Broccoli - 3 days, parsley - 21 days)	
CELERY	spider mites, aphids		
SPINACH	aphids		
CARROTS	aphids, leafhoppers		
BEETS	aphids, leafhoppers		
ENDIVE	aphids, mites		2½ tsp./gal. water, or 2½ pts. in 25/50 gals. water per acre 1½ tsp./gal. water, or 1½ pts. in 25/50 gals. water per acre



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	INSECTS	WHEN TO APPLY	
APPLES	wooly apple aphid, bud moth, Ferbes scale, green apple aphid, rosy apple aphid, mealybug, codling moth, plum curculio, red-banded leaf roller, tent caterpillar	Start to spray when leaves first start to appear. Repeat at 10 day intervals until bloom. Do not spray during blossom period. Repeat at 14 day intervals after bloom, up to 3 days before harvest. May cause injury to McIntosh and Cortland varieties of apple.	Apply at the rate of 2 tsp./gal. water, or 2 pts./100 gals. water
APRICOTS	codling moth, orange tortrix, terrapin scale, soft brown scale, aphids	Start to spray early in season. Repeat at 10 day intervals until bloom. Do not spray during blossom period. Repeat at 14 day intervals after bloom, up to 7 days of harvest.	Apply at the rate of 1½-2 tsp./gal. water, or 1½-2 pts./100 gals. water
CHERRIES, PLUMS, PRUNES	black cherry aphid, fruit tree leaf roller, cherry fruit fly, bud moth, mealy plum aphid	Spray as for apricots, up to 3 days of harvest.	Apply at the rate of 1½ tsp./gal. water, or 1½ pts./100 gals. water
PEACHES	oriental fruit moth, plum curculio, green peach, black cherry, black peach, rusty plum aphids and Japanese beetle, terrapin, cottony peach scales	Spray as for apricots, up to 7 days of harvest.	Apply at the rate of 2 tsp./gal. water or 2 pts./100 gals. water
CITRUS - grapefruit, lemons, limes, oranges, tangerines, tangelos, kumquats	California red, yellow, purple, black (single and off brooded), soft, citricola scales, Florida red and purple scales (light & medium infestations, thrips		
PEARS	mealybugs, mites, pear psylla, codling moth, plum curculio, fruit tree & red banded leaf rollers	Spray as for apricots, up to 1 day of harvest.	



1939	INSECTS	WHEN TO APPLY	AMOUNT
BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES.	mites, thrips, leafhoppers, Japanese beetles, aphids, rose scale, sap beetle	Make 2 or more applications up to day of harvest.	3 tsp./gal. water, 3 pts./100 gals. water per acre
BLUEBERRIES	Japanese beetle		1½ tsp./gal. water, or 1½ pts./100 gals. water per acre
STRAWBERRIES	aphids, spider mites, lygus bug, spittlebugs, field crickets, thrips, potato leafhopper, strawberry leafroller, whiteflies	Make 2 or more applications up to 3 days of harvest.	1½ tsp./gal. water, or 1½-3 pts./100 gals. water per acre
	strawberry root weevil	Apply to soil surface before planting and work into top 6 to 8 inches of soil.	
ORNAMENTALS	aphids, mealybugs, spider mites, whitefly, four- lined plant bug, Japanese beetle, potato leafhopper, tarnished plant bug, thrips, rose leafhoppers, European pine shoot moth, birch leaf miner, boxwood leaf miner, bagworms, tent caterpillar	Spray thoroughly both top and undersides of leaves until slightly dripping as soon as insects appear. Repeat as needed. Injury may occur on ferns, hickory, viburnum lantana, crassula and canebrake juniper.	2 tsp./gal. water, or 2 pts./100 gals. water per acre
	oak kermes, azalea, pine leaf, magnolia, Fletcher, Florida red, juniper, black, scurfy, Euonymus, oyster shell, monterey pine, soft, pine needle scales		4 tsp./gal. water, or 4 pts./100 gals. water per acre
ORNAMENTAL GREENHOUSE (in and around greenhouses and flower gardens)	millipedes, springtails, sowbugs	Apply when insects appear. Repeat at 7-10 day intervals as needed.	1 tsp./gal. water, and apply to 150 sq. ft. of soil surface
ROSES, CHRYSAN- THEMUMS, CARNA- TIONS	aphids, whiteflies, mealy- bugs, thrips, two-spotted mite	Spray thoroughly both top and undersides of leaves until slightly dripping as soon as insects appear. Repeat as needed.	2 tsp./gal. water



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