

# MALATHION INSECT CONTROL CONCENTRATE

**CONTROLS** SCALES, THRIPS, LEAFHOPPERS, JAPANESE BEETLES, CODLING MOTHS AND OTHER LISTED SUCKING AND CHEWING INSECTS. ALSO CONTROLS MOSQUITOES AND SMALL FLYING INSECTS.

**USE** ON ASPARAGUS, TOMATOES, LETTUCE, MELONS, SQUASH, APPLES, BLACKBERRIES, CITRUS FRUITS, ORNAMENTALS, ROSES AND CARNATIONS, PLUS OTHER LISTED FRUITS AND VEGETABLES. **MIX** 1 TO 4 TSP.

PER GALLON OF WATER DEPENDING ON THE PLANT ON WHICH IT IS TO BE APPLIED. **READ AND USE ACCORDING TO LABEL DIRECTIONS.** **APPLY** USING A TANK SPRAYER, HOSE END SPRAYER OR WATERING CAN.

Store and transport in an upright position.

EPA Est. No. 4-NY-1 EPA Reg. No. 4-99

Buyers Guarantee Limited to Label Claims.

©Bonide Products, Inc. All Rights Reserved

Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424

## **DIRECTIONS FOR USE**

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

This product controls a great diversity of insects; including aphid, spider mites, scales, as well as a wide range of other sucking and chewing insects attacking listed fruits, vegetables, ornamentals, and controls mosquitoes and small flying insects.

## **DIRECTIONS**

For proper mixing, the spray tank should be at least  $\frac{3}{4}$  filled with water before this product is added. Shake sprayer occasionally or agitate to keep spray particles in suspension during application. Follow spray schedule given in **SPRAY CHART**.

Do not apply this product through any type of irrigation system. For home garden use only.

Crop	Insects	When to Apply	Amount
Asparagus	Asparagus Beetle, Asparagus Aphid	Makes 2 or more applications as needed up to 1 day of harvest.	2 ½ tsp./gal. water per 1750 to 3500 sq. ft
	Thrips		2 tsp./gal. water
Beans (Lima, Green, Snap, Navy, Red, Kidney, Wax, Cowpeas, Blackeyed Peas)	Mexican Bean Beetle, Spider Mites, Japanese Beetle, Aphids, Cucumber Beetle	Make 2 or more applications as needed up to 3 days of harvest. *Make full coverage applications weekly to stems and vines at base of plants. Consult Cooperative Agricultural Extension Service for proper timing.	1 ½ tsp./gal. water per 1750 to 3500 sq. ft
Tomatoes	Spider Mites, Aphids		3 tsp./gal. water per 1750 to 3500 sq. ft
Pumpkins	Aphids, Mites, Squash Vine Borers*		4 tsp./gal. water per 1750 to 3500 sq. ft
Eggplant	Aphids, Spider Mites	*Make full coverage applications weekly to stems and vines at base of plants. Consult Cooperative Agricultural Extension Service for proper timing.	2 ½ tsp./gal. water per 1750 to 3500 sq. ft
	Lace Bugs		3 tsp./gal. water per 1750 to 3500 sq. ft
Onions	Thrips, Onion Maggots	Make 2 or more applications as needed up to 3 days of harvest.	1 ½ tsp./gal. water per 1750 to 3500 sq. ft
Peppers	Aphids		3 tsp./gal. water per 1750 to 3500 sq. ft
	Pepper Maggots		1 ½ tsp./gal. water per 1750 to 3500 sq. ft
Rutabagas	Aphids	Make 2 or more applications as needed up to 3 days of harvest.	3 tsp./gal. water per 1750 to 3500 sq. ft
Sweet Potato	Leafhoppers, Morningglory Leafminer		1 ½ tsp./gal. water per 1750 to 3500 sq. ft
Potatoes (White or Irish)	False Chinch Bugs, Aphids, Leafhoppers, Mealybugs	Make 2 or more applications as needed up to day of harvest.	1 ½ tsp./gal. water per 1750 to 3500 sq. ft

Cont. from page 3

Crop	Insects	When to Apply	Amount
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 per 1750 to 3500 sq. ft
Corn (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 per 1750 to 3500 sq. ft
	Grasshoppers	Make full coverage application to foliage when nymphs are young.	
	Corn Rootworm adults (for protection of silks)	Make full coverage application when adult beetles become abundant.	
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Honey Balls, Muskmelons, Persians, Watermelons and hybrids of these)	Aphids, Spider Mites, Cucumber Beetles	<p>Make 2 or more applications as needed up to 1 day of harvest. Do not apply unless plants are dry.</p> <p>*Make full coverage applications weekly to stems and vines at base of plants. Consult Agricultural Cooperative Extension Service for proper timing.</p>	3 tsp./gal. water per 1750 to 3500 sq. ft

Cont. from page 4

Crop	Insects	When to Apply	Amount
Squash	Aphids, Spider Mites, Pickleworms, Squash Vine Borers*, Cucumber Beetles	Make 2 or more applications as needed up to 1 day of harvest. Do not apply unless plants are dry.	3 tsp./gal. water per 1750 to 3500 sq. ft
Cucumber	Aphids, Spider Mites, Cucumber Beetles	*Make full coverage applications weekly to stems and vines at base of plants. Consult Agricultural Cooperative Extension Service for proper timing.	
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		1 ½ tsp./gal. water per 1750 to 3500 sq. ft

Cont. from page 5

Crop	Insects	When to Apply	Amount
Apples	Wooly Apple Aphids, Bud Moth, Forbes Scale, Green Apple Aphids, Rosy Apple Aphid, Mealybug, Codling Moth, Plum Curculios, 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
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 1 ½ tsp./gal. water
Cherries	Black Cherry Aphid, Fruit Tree Roller, Cherry Fruit Fly, Bud Moth, Mealy Plum Aphid	Spray as for apricots, up to 3 days of harvest.	Apply at the rate of 1 ½ tsp. in gal. water
Peaches	Oriental Fruit Moth, Plum Curculios; green peach, black cherry, black peach, Rusty Plum Aphids, 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
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		

Cont. from page 6

Crop	Insects	When to Apply	Amount
Pears	Mealybugs, Mites, Pear Psylla, Codling Moth, Plum Curculios, Fruit Tree & Red Banded Leaf Rollers	Spray as for apricots, up to 1 day of harvest.	Apply at the rate of 2 tsp./gal. water
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 per 435 sq. ft.
Blueberries	Japanese Beetle		1 ½ tsp./gal. water per 435 sq. ft.
Ornamentals	Aphids, Mealybugs, Spider Mites, Whitefly, Four-lined Plant Bug, Japanese Beetle, Potato Leafhopper, Tarnished Plant bug, Thrips, Rose Leafhopper, 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 canaerti juniper	2 tsp./gal. water per 435 sq. ft.
	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 per 435 sq. ft.

Cont. from page 7

Crop	Insects	When to Apply	Amount
Ornamental Greenhouse (in and around hobby 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, Chrysanthemums, Carnations	Aphids, Whiteflies, Mealybugs, 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. in gal. water

### MOSQUITOES AND SMALL FLYING INSECTS

**NOTE: THIS PRODUCT MAY CAUSE SPOTTING ON AUTOMOBILE PAINT FINISH. CARS SHOULD NOT BE SPRAYED DIRECTLY. IF ACCIDENTAL EXPOSURE OCCURS, THE CAR SHOULD BE WASHED IMMEDIATELY.**

**Outdoors:** Use a Bonide Malathion 2% to 5% area spray, fog or aerosol. As a 2% area or patio spray, dilute 50% emulsifiable liquid 1 part to 25 parts water or 5 oz. to 1 gallon water. When using kerosene type solvents, such as fuel oil or diesel oil, as carriers, dilute 1 part 50% emulsifiable liquid in 25 parts of a mixture consisting of 4 parts kerosene type solvent and 1 part aromatic hydrocarbon type solvent. For 5% dilute 1-11 using similar solvents. Repeat applications as necessary. Avoid applying oil-based formulations to plants as injury may occur.



## STORAGE AND DISPOSAL

**Storage:** Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

**Disposal:** *If empty-* Do not reuse this container. Place in trash or offer for recycling if available. *If partly filled-* Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

<b>If Swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice</li><li>• Do not give any liquid to the person</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
----------------------	--

<b>If Inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
--------------------	---

<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
--------------------------------	---

### FIRST AID Cont.

**If in Eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**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 humans. When used indoors in hobby greenhouses use only with adequate ventilation. After using this product indoors in hobby greenhouses, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. 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.

#### PHYSICAL HAZARDS

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