

4-99

12/30/2003

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747306



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

DEC 30 2003

Ms. Rebecca M. Horton  
Consultant/Agent  
Bonide Products Inc.  
2 Wurz Avenue  
Yorkville, NY 13495

Dear Ms. Horton:

Subject: Updated First Aid and Disposal Statements  
Bonide Malathion 50% EC  
EPA Reg. No. 4-99  
Your Application of September 16, 2003

The labeling amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you submit two copies of your final printed label incorporating the following corrections before you release the product for shipment.

1. The statement, "For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on grounds." conflicts with the listed uses on fruits and vegetables and should be deleted. It is unlikely that the various home garden fruits and vegetables on which the product is to be used are grown only for aesthetic purposes or climatic modifications.

2. Add a statement specifying that the use on the listed fruits and vegetables is limited to home gardens.

3. Qualify the optional marketing statement, "Mix 1 to 4 Tsp. per Gallon of Water" by revising it to read somewhat as cited below.

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"Mix 1 to 4 Tsp. per Gallon of Water depending on the plant on which it is to be applied."

4. Correct the First Aid statements for the ingestion route of exposure by replacing the statement, "Have the person sip a glass of water if able to swallow." with the statement cited below.

Do not give any liquid to the person.

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

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

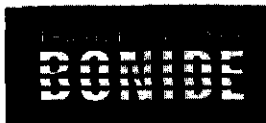
Sincerely,



Marilyn A. Mautz  
Biologist  
Insecticide-Rodenticide Branch  
Registration Division (7504C)

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:



DEC 30 2003

Under the Federal Insecticide,  
Fungicide, and Herbicide Act  
as amended, for the insecticide  
registered under EPA Reg. No.

4-99

# MALATHION 50% EC

[Additional Brand Names: Bonide Cythion® Premium Grade Malathion 50% EC; Malathion Insect Control]

**Optional Marketing Statement:**

For Flowers, Evergreens, Shrubs, Shade Trees, and the Listed Fruits and Vegetables, Mosquitoes, Small Flying Insects

**ACTIVE INGREDIENT:**

Malathion (CAS #121-75-5) ..... 50%

**OTHER INGREDIENTS:**..... 50%

**TOTAL**..... 100%

This product contains petroleum distillate.

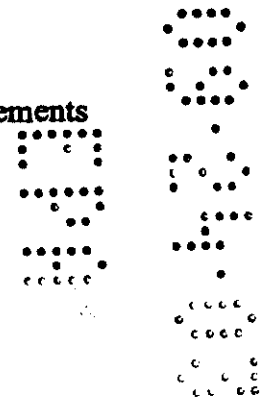
Cythion® is a registered trademark of the American Cyanamid Co., Inc., New York

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See side/back/other panel(s) for additional Precautionary Statements

NET CONTENTS: \_\_\_\_\_



[SIDE/BACK/OTHER PANEL(S)]

<b>FIRST AID</b>	
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 Telecommunications Network at 1-800-858-7378 for emergency medical treatment information.	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</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>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN:</b> 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.

**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 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 or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on grounds.

**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.**

BONIDE MALATHION 50% EC 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 and ornamentals, and controls mosquitoes and small flying insects.

Do not apply this product through any type of irrigation system.

**DIRECTIONS**

For proper mixing, the spray tank should be at least ¾ filled with water before MALATHION 50% EC is added. Shake sprayer occasionally or agitate to keep spray particles in suspension during application. Follow spray schedule given in SPRAY CHART below.

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 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.	1½ 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.	2½ 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 full coverage applications weekly to stems and vines at base of plants. Consult Cooperative Agricultural Extension Service for proper timing.	1½ tsp./gal. water per 1750 to 3500 sq. ft. ....
Peppers	aphids pepper maggots		3 tsp./gal. water per 1750 to 3500 sq. ft. ....
Rutabagas	aphids	1½ tsp./gal. water per 1750 to 3500 sq. ft. ....	
Sweet Potato	leafhoppers, morningglory leafminer	Make 2 or more applications as needed up to 3 days of harvest.	3 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.	1½ tsp./gal. water per 1750 to 3500 sq. ft. ....

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	Make 2 or more applications as needed up to 1 day or harvest. Do not apply unless plants are dry.  *Make full coverage applications weekly to stems and vines at base of plants. Consult Agricultural Cooperative Extension Service for proper timing.	3 tsp./gal. water per 1750 to 3500 sq. ft.
Squash	aphids, spider mites, pickleworm, squash vine borers*, cucumber beetles	*Make full coverage applications weekly to stems and vines at base of plants. Consult Agricultural Cooperative Extension Service for proper timing.	2 1/2 tsp./gal. water per 1750 to 3500 sq. ft.
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)		
Celery	spider mites, aphids		
Spinach	aphids		
Carrots	aphids, leafhoppers	1 1/2 tsp./gal. water per 1750 to 3500 sq. ft.	
Beets	aphids, leafhoppers		
Endive	aphids, mites		
Apples	wooly apple aphids, bud moth, Forbes scale, green apple aphids, 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.
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 1/2 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 1/2 tsp./gal. water.

Crop	Insects	When to Apply	Amount
Peaches	oriental fruit moth, plum curculio; 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		
Pears	mealybugs, mites, pear psylla, codling moth, plum curculio, fruit tree & red banded leaf rollers		
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 1/2 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 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 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.
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, Chrysanthemum, 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./gal. water.

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.

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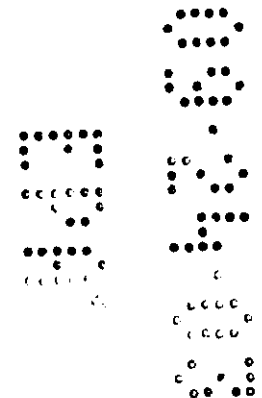
For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

Buyer's Guarantee Limited to Label Claims.

Manufactured by:

Bonide Products, Inc.

Oriskany, NY 13424





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**Bonide Malathion 50% EC**

**Optional Marketing Statements:**

**Concentrate**

**Kills: Mosquitoes, Grasshoppers, Thrips, Spider Mites, & Other Listed Insects**

**For Use on Listed Fruits, Vegetables & Ornamentals**

**Controls Scales, Thrips, Leafhoppers, Japanese Beetles, Codling Moth 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. Read and Use According to Label Directions. Apply Using a Tank Sprayer, Hose End Sprayer or Watering Can.**

