

21 APR 1989

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Bonide Chemical Company, Inc.  
2 Wurz Avenue  
Yorkville, NY 13495

Gentlemen:

Subject: Bonide Malathion 5E  
EPA Registration No. 4-99  
Your Application Dated March 17, 1989

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
  - Add the statement "Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surfaces until sprays have dried."
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

53151:I:CR-44:Lachman:LM-19:KENCO:04/13/89:04/25/89:DD:EK:AS:vo:rw

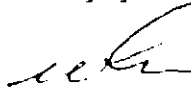
CONCURRENCES

SYMBOL							
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If these conditions are 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 these conditions.

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

Sincerely yours,



William H. Miller  
Product Manager (16)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

Enclosure

BONIDE®

AMERICAN  
CYANAMID  
CORPORATION  
NEW YORK, N.Y. 10017

APR 21 1989

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under EPA Reg. No. 4-99

4-99

CYTHON® PREMIUM GRADE  
MALATHION  
50% EC

FOR FLOWERS, EVERGREENS, SHRUBS,  
SHAFF TREES, HOUSEPLANTS, THE  
LISTED FRUITS AND VEGETABLES,  
MOSQUITOES, SMALL FLYING INSECTS,  
AND FLY CONTROL.

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

ACTIVE INGREDIENTS:

Malathion: 0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate .....	50%
Xylene: .....	39%
INERT INGREDIENTS: .....	11%

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

KEEP OUT OF REACH OF CHILDREN  
CAUTION  
See side panel for additional  
precautionary statements

NET CONTENTS:

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ECNIDE MALATHION 50% EC, EPA Reg. No. 4-99

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 household pets or humans.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Get medical attention.  
 If inhaled: Remove victim to fresh air and apply respiration if indicated.  
 If on skin: Wash promptly with soap and water. Rinse thoroughly. Remove contaminated clothing and shoes. Wash clothing before reuse.  
 If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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 pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water or wetlands (i.e., swamps, bogs, marshes, and potholes). 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.

DIRECTION FOR USE

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

STORAGE AND DISPOSAL

Keep container tightly closed to prevent evaporation. Do not store near nor contaminate feed, or foodstuffs. Do not reuse container. Wrap container and put in trash collection.

**BEST AVAILABLE COPY**

BONIDE MALATHION 50% EC, FFA Reg. No. 4-99

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, and vegetables, ornamentals, houseplants; controls flies, mosquitoes, and small flying insects; for protection of stored grains.

**DIRECTIONS**

For proper mixing, the spray tank should be at least 1/2 full with water before Malathion is added. Spray at low pressure and late in the day to keep spray particles from blowing during application. Follow spray schedule given in CHART below.

CROP	INSECT	WHEN TO APPLY	AMOUNT
APRICOT	spider mite, scale, pear leaf beetle	Make 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	flies		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
Apple	Apple tree leaf miner, codling moth, scale, leafhopper	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
BANANA	spider mite, aphid		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
BUMBERBEE	aphid, scale, pear leaf beetle		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
PLANT	aphid, spider mite, scale	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
CORN	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	flies		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
CUCURBIT	spider mite, aphid	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	flies		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
CANTALOUPE	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	spider mite	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
MELON	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	spider mite	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
PEACH	spider mite, scale, pear leaf beetle	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
CUCUMBER	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	spider mite	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
PUMPKIN	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	spider mite	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
SQUASH	aphid, European cornborer	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
	spider mite	Make 1 or 2 applications, first 15-20 days before harvest.	1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
SPINACH	aphid		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
CARROTS	aphid, leafhopper		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
BEETS	aphid, leafhopper		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
INHALER	aphid		1.0 oz per gallon or 2.0 pt per 25 gallons of water per acre
APPLET	Apple tree leaf miner, codling moth, scale, leafhopper	Start to spray when leaves first begin to appear. Repeat at 10 day intervals until 15-20 days before harvest. Repeat at 10 day intervals after bloom. Do not use on the same tree more than once in a season. Do not use on apples and pears.	Apply at the rate of 1.0 oz per gallon or 2.0 pt per 25 gallons of water

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BONIDE MALATHION 50% EC, FFA Reg. No. 4-99

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, and vegetables, ornamentals, houseplants; controls flies, mosquitoes, and small flying insects; for protection of stored grains.

**DIRECTIONS**

For proper mixing, the spray tank should be at least 1/2 filled with water before MALATHION is added. Shaker SETTER combination of sprayer to keep spray particles in suspension. Follow spray schedule given in SPRAY CHART below.

CROP	INSECTS	WHEN TO APPLY	AMOUNT
ALFALFA	Blue-green Stink Bug, Brown Borer, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
BEAN (Long Green Beans, Wax Beans, etc. - See FFA Reg. No. 4-99)	Bean Leaf Beetle, Broad Bean Weevil, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
CORN	European Corn Borer, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
PEACH	Peach Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
PLUM	Plum Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
RAISIN	Raisin Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
STRAWBERRY	Strawberry Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
WATERMELON	Watermelon Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
BROCCOLI	Broccoli Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
CABBAGE	Cabbage Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
MELON	Melon Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
PEPPER	Pepper Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
TOMATO	Tomato Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
CUCURBIT	Cucurbit Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
LETTUCE	Lettuce Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
CARROT	Carrot Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
SPINACH	Spinach Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
CELERY	Celery Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
BRASSICA	Brassica Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
BITTS	Bitts Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
LEAF MINER	Leaf Miner, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre
APPLE	Apple Aphid, etc.	Make 1 cup of spray per 100 gallons of water up to 1 day of harvest.	2 1/2 to 3 1/2 gal. water per acre 25 to 35 gal. water per acre

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PONIDE MALATHION 50% E, EPA Reg. No. 4-99

**INSTRUCTIONS FOR USE ON PESTS IN HOMES, GREENHOUSES, LATHOUSES, COMMERCIAL AND INSTITUTIONAL BUILDINGS AND FOR INDOOR LANDSCAPING.**

Prior to spray application, remove infested plants from living and eating areas, and place in an area not likely to come in contact with pets, children or food. Plants can be returned to original location when leaves dry.

If plant removal is not possible, remove or cover exposed food and food handling surfaces, including utensils, and remove animals. Shut off ventilating system, air ducts, and air conditioning equipment. Avoid spray contact with surrounding areas.

Insects Controlled

This product may be used for control of aphids, fruit fly, fruit, leafhoppers, mealybugs, plant bugs, spider mites, springtails, thrips, and whiteflies in greenhouses, lathouses, homes, commercial and institutional buildings, and for indoor landscaping.

Apply the spray to the upper and lower surfaces of plant foliage to the point of runoff. Avoid wetting blossoms if possible. For best results, spray in the late afternoon or evening when temperatures are lower and plants are not in direct sunlight. Repeat application weekly if necessary. Use on the following ornamental plants:

Plants Protected

amaranth, autumn crocus, aster, azalea, begonia, butterfly bush, calla lily, carnation, chrysanthemum, coleus, daisy, dahlia, dianthus, geranium, gladiolus, hydrangea, impatiens, iris, jacinth, lily, marigold, petunia, phlox, rose, snapdragon, verbena, zinnia, and many other plants. Use on the following ornamental plants:

USE WITH CAUTION ON ALL PLANTS. Avoid spraying on plants which are stressed or in bloom. Do not spray on plants which are in contact with water. Do not spray on plants which are in contact with water.

Avoid spraying on plants which are in contact with water. Do not spray on plants which are in contact with water. Do not spray on plants which are in contact with water.

**FOR FLY CONTROL**

**HOUSE FLIES, Dairy Barns, Hog Barns, Poultry Houses, Calf Pens, Manure Piles, Garbage Cans, Yards and Around Meat Processing Plants. (Do Not Use Around Edible Products Areas)** Dilute 8 ozs. of Malathion in 3 gals. of water (1 gal. to 50 gals.) Use 1 qt. of spray to cover 200 square feet. For prolonged action add 3-4 cups of sugar to each 3 gals. of spray. Do not contaminate food, water, food containers, or cooking utensils.

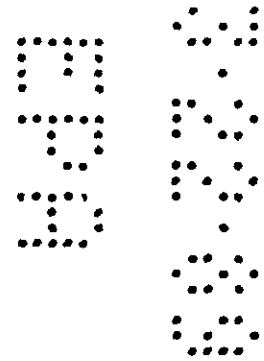
**FOR HOUSEHOLD INSECTS**

**ROACHES, ANTS, SPIDERS, SILVERFISH, CRICKETS, CLOVER MITES, EAR WIGS:** Dilute 3 tablespoons in 1 qt. of water. Apply as a coarse spray or brush onto window sills, baseboards, drainboards, under sinks, cracks and crevices, stoves or other areas frequented by such insects. Repeat applications as necessary. Do not contaminate food or cooking utensils.

**DOGS & CATS - FLEAS:** Dilute 1 oz. (2 tablespoons) in 1 gal. of water. Spray or sponge to wet pet thoroughly. Repeat every second or third week as required. Do not treat animals under one month of age.

**FLEAS IN KENNELS, PENS, YARDS, LAWN AND UNDER HOUSES:** Use a spray containing 5 oz. (10 tablespoons) of Malathion in 1 gal. (1 gal. to 25 gals.) Use one gal. of spray per 1000 square feet. Use a garden sprayer or sprinkling can. Remove manure and debris before spraying.

Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given on the label.



**PLS**



PONID: MALATHION 50% EC, FFA Per. No. 4-99

**STORED GRAINS** — For the protection of stored grains (wheat, oats, rice, corn, rye, barley, grain sorghum), and field or garden seeds against accessible exposed stages 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 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.

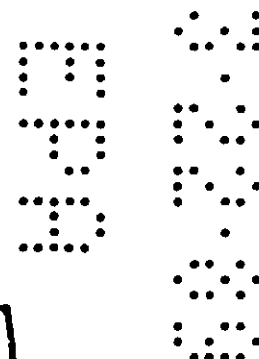
**GRAINS GOING INTO STORAGE:** Apply 1 pint in 25 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage.

**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 1/2 pint in 12 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% EC in 25 gallons of water, or one gallon of MALATHION 50% EC 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.

Buyer's Guarantee Limited to Label Claims  
Mfg. by RONIDE CHEMICAL CO., INC., YORKVILLE, NY 13495



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