

# AGRICULTURAL INSECTICIDE

## MIXING DIRECTIONS

Carefully add required amount of Miller's Malathion 5E into partially filled spray tank, with agitator running, then add remaining amount of water to complete filling. Or, add Miller's MALATHION 5E to equal amount of water and stir until creamy emulsion is formed, then add to spray tank. Continued agitation during mixing and spraying operations is recommended.

## USE RECOMMENDATIONS

Apply recommended amounts for individual crop on first appearance of insect, or when insect injury is first noticed. Repeat sprays as necessary.

The amounts given are in pints of Miller's MALATHION 5E per 100 gallons of water and/or pints per acre. When applying by aircraft use 10 to 20 gallons per acre; ground equipment, 20 to 100 gallons; being sure to use sufficient water for thorough coverage of crop.

Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fibre or pasture crops. Do not apply during bloom when pollinators are active.

Consult State Agricultural Experiment Station or State Extension Service Authorities for additional information consistent with label directions and cautions including exact timing and spacing of sprays in your area.

## SPECIFIC DIRECTIONS

\*Days indicated below represent number of days between last application and harvest. †See Use Recommendations for amount of water to use with recommended pints per acre.

CROP AND PEST	Pints per 100 gal.	†Pints per acre	*Days before harvest
<b>APPLES</b> —Woolly Apple Aphid, Bud Moth.....	1	6-2/5 to 8	3
Green and Rosy Apple Aphid.....	1 1/2	6-2/5 to 8	3
Codling Moth, Plum Curculio, Red-banded Leaf Roller.....	2	6-2/5 to 8	3
This product may injure McIntosh and Courtland varieties of apples if applied within 4 weeks of harvest.			
<b>APRICOTS</b> —Codling Moth, Aphids.....	1 1/2 to 2	6-2/5 to 8	7
<b>CHERRIES</b> —Black Aphids, Fruit Tree Leafroller.....	1 1/2	6-2/5 to 8	3
<b>PEARS</b> —Pear Psylla, Mealybug.....	1 to 2	6-2/5 to 8	1
Codling Moth, Plum Curculio, Fruit Tree and Red-banded Leafrollers.....	2	6-2/5 to 8	1
<b>PLUMS, PRUNES</b> —Mealy-Plum Aphid, Bud Moth.....	1	6-2/5 to 8	3
<b>BLACKBERRIES, BOYSENBERRIES, LOGANBERRIES, RASPBERRIES</b> —Mites, Thrips, Leafhoppers.....	1 1/2	2-4/5	1
<b>CRANBERRIES</b> —Leafhoppers, Black-headed Fireworms.....	1 1/2	2-2/5	3
<b>STRAWBERRIES</b> —Aphids, Spider Mites.....	1 1/2	1-3/5 to 3-1/5	3

CROP AND PEST	Pints per 100 gal.	†Pints per acre	*Days before harvest
<b>BEANS</b> —Spider Mites, Mexican Bean Beetle....	1 1/2	2	1
Aphids.....	2	2	1
<b>BEETS</b> —Aphids.....	1-3/5	1-3/5 to 2	7
<b>BROCCOLI, TURNIP</b> —Aphids, Imported Cabbage Worm, Cabbage Looper.....	1 to 2	2	3
<b>CABBAGE, BRUSSEL SPROUTS, KALE, MUSTARD</b> —Aphids, Imported Cabbage Worm, Cabbage Looper.....	1 to 2	2	7
<b>ONIONS</b> —Thrips.....	1 1/2	1 1/2	3*
*Make no applications within 3 days of harvest on Green Onions.			
<b>PEAS</b> —Pea Aphid.....	1 1/2	1 1/2	3
<b>PEPPERS, EGGPLANT</b> —Aphids.....	1	2-2/5	3
<b>POTATOES</b> —Aphids, Leafhoppers.....	1	1 to 2	0
<b>SPINACH</b> —Aphids.....	1	1-3/5 to 2	7
<b>TOMATOES</b> —Spider Mites.....	1 1/2	2	1
Aphids.....	1	2	1
<b>ALFALFA, CLOVER</b> —Aphids, Potato Leafhopper, Spider Mites, Alfalfa Weevil Larvae.....	1 1/2 to 2	1 1/2 to 2	0
<b>GRASS (Range and Pasture)</b> —Grasshoppers, Leafhoppers, Aphids.....		1-3/5 to 2	0
For Grasshoppers, apply when hatching of dominant species is completed and before eggs are laid.			
<b>ORNAMENTALS</b> —Aphids, Spider Mites, White Fly, Thrips, Mealybugs, Leafhoppers....	1 1/2		
Tent Caterpillars.....	2		
Injury may occur to certain ferns including Boston, Maidenhair, and Pteris as well as some species of Crassula.			

## FLY CONTROL

For use in and around buildings which house domestic animals, around yards, around homes, and around meat processing establishments.

Straight Malathion Spray		Bait Sprays—ADD	
Amount	Amount of Miller's MALATHION 5E	Sugar or	Unsulfurized Molasses or Corn Syrup
2 1/2 gal.	1 cup	1 cup	1 cup
12 gal.	1 qt.	2 1/2 lbs.	1 qt.
100 gal.	2 gal.	20 lbs.	2 gal.

Apply the spray at the rate of 1 gal. per 1000 sq. ft. on painted surfaces and 2 gal. per 1000 sq. ft. on unpainted surfaces where flies alight or congregate. In most cases, adding sugar or molasses to the spray prolongs the insecticidal activity of malathion and serves as a fly attractant. Do not use in milk rooms. Avoid contamination of feed and food products, also drinking fountains and feed troughs. Do not leave within reach of children. Do not use in rooms where edible products are handled. Remove lactating dairy animals and calves under one month of age from building before treating.

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Miller's 

# MALATHION 5E

(5 lbs. **CYTHON** per Gallon)



## AGRICULTURAL INSECTICIDE AND GRAIN AND BIN SPRAY

Active ingredients  
 Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate) ..... 57.5%  
 Aromatic Petroleum Derivative Solvents..... 31.1%  
 Inert ingredients ..... 11.4%

**CAUTION — Keep out of reach of children**

See right side panel for additional cautions.

Gallon

**MILLER PRODUCTS**

PORTLAND, OREGON 97218

802-460

9-1-71

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## GRAIN AND BIN SPRAY

for protection against . . . **SAWTOOTH GRAIN BEETLE, FLAT GRAIN BEETLE, FOREIGN GRAIN BEETLE, FLOUR BEETLE, RICE WEEVIL and GRANARY WEEVIL**

### GENERAL INFORMATION

Miller's MALATHION 5E gives best residual protection on grain having a low moisture content. When moisture exceeds 12½%, the efficiency of treating begins to diminish and at 14% to 15% moisture, results may be poor.

The use of Miller's MALATHION 5E does not add dockage to the grain and the amount of water used for application is negligible.

Miller's MALATHION 5E, used as directed, has no adverse effect on germination and may be used on wheat and other grain to be used for feed or processed for food.

### PROTECTION FOR GRAIN GOING INTO STORAGE

**Wheat, Oats, Corn, Rye, Barley, Grain Sorghum, Field and Garden Seeds**

Use 1 pint in 2 to 5 gallons of water for each 1000 bushels of grain. For Oats, use ½ pint in 2 to 5 gallons of water for each 1000 bushels.

#### Apply:

1. Spray onto the grain during loading or as it is being turned for final storage.
2. Introduce spray to the grain at some convenient place such as at the base of augers, or along conveyors. Any standard spray applicator that can be calibrated is suitable. Adjust flow of grain and volume of spray to apply proper amount. Tumbling action of grain during elevating or spilling assures thorough mixing.
3. For hand scooped grain, the surface of the grain in the bin can be sprayed periodically as the grain is scooped in.

### SURFACE PROTECTION FOR INDIAN MEAL MOTH

Use ½ pint in 1 to 2 gallons of water for each 1000 sq. ft. of grain surface area in the bin.

#### Apply:

1. Spray evenly onto the surface of the grain immediately after bins are filled.
2. Treatment should be repeated if necessary

### CLEAN-UP SPRAY

Empty Bins, Box Cars, Trucks, Ships' Holds, Grain Handling Equipment, Elevators.

**Prepare:** Cleanup all insect breeding places by thoroughly sweeping and brushing walls, floors, braces and rafters in bins, trucks and ships' holds; lodging places for debris and spilled grain in elevators, conveyors, boots, pits, head houses and distributors. Remove and burn sweepings.

Use 1 gallon in 25 gallons of water.

#### Apply:

1. Spray all surfaces, exposed to grain during storage and handling, to the point of run-off. Make particularly sure that spray is forced into cracks, crevices, and other hard-to-reach places.
2. Use any hand or power sprayer that will develop enough force to drive spray into cracks and crevices.
3. This same spray should be applied to the outsides of bins to help prevent reinfestation.

**NOTE:** Area around storage buildings should be kept free of weeds, debris, spilled grain, and uncleaned handling equipment to eliminate outside breeding places for stored grain insects.

### CAUTION — Keep out of reach of children

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin; wash thoroughly after using. Avoid contamination of feed and foodstuffs.

Note to Physicians: Malathion, upon repeated use, may cause cholinesterase inhibition. ATROPINE IS ANTIDOTAL. 2-PAM is also antidotal and may be administered in conjunction with Atropine.

This product is toxic to fish. Keep out of lakes, streams and ponds. Apply this product only as specified on this label.

Rinse equipment and containers and dispose of wastes by burying in non-crop lands away from water supplies. Containers should be disposed of by breaking or by punching holes in them and burying with wastes.

**NOTICE:** Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

U.S.D.A. Reg. No. 802-460

MP-5F

2073

SEP 1 1971

ACCEPTED  
SEP 1 1971  
UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR CHEMICAL POISON REGISTER-  
ED UNDER NO. .... SUBJECT  
TO ATTACHED COMMENTS.

802-460

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