

**OBSERVE THE FOLLOWING  
USE PRECAUTIONS**

Observe use directions given on the label for specific crops. Do not apply pesticides to food and forage crops which exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of waste.

To protect bees, do not apply when crops are in bloom. Remove or cover hives if application is necessary during bloom.

Consult state agricultural experiment station for additional information as the timing, number and rate of application needed will vary with local conditions.

**DIRECTIONS FOR USE**

Application on vegetable, row and field crops can be made by aircraft or ground power equipment. The amount of water needed to treat an area varies therefore, the following rates are given to cover a broad range of conditions. Aircraft 3-10 gals. water per acre. Ground 20-100 gals. per acre.

Pour specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily but tends to separate as an oily layer, do not use, as injury to plants may result. Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. ALWAYS thoroughly emulsify this product with at least half of total water before adding wettable powder.

**RECOMMENDATIONS**

Unless otherwise indicated, dosages are given in pints of Malathion 5-E in sufficient water to cover one acre. Thorough, full coverage applications should be made. Begin applications when insects first appear and repeat as necessary.

NOTICE: Seller's guarantee shall be limited to the terms of the label, and subject thereto, the buyer assumes any risk to persons or property arising out of use or handling and accepts the product on these conditions.

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**ALFALFA, CLOVER** Alfalfa, Weevil Larvae, Aphids, Armyworms, Grasshoppers, Lygus Bugs, Potato Leafhoppers, Spider Mites, Spittlebugs, 1 1/2 to 2 pints. Use higher rate for Armyworm control. Do not apply during bloom. May be applied on day of harvest or grazing.

**ASPARAGUS** Asparagus Beetles, Thrips, 2 pts. Do not apply within 1 day of harvest.

**BEANS** Aphids, Cucumber Beetles, Japanese Beetles, Mexican Bean Beetles, Potato Leafhoppers, Spider Mites, 2 pts. Do not apply within 1 day of harvest.

**BEETS, TABLE** Aphids, 2 pts. Do not apply within 7 days of harvest.

**CELERY**: Aphids, Spider Mites, 2 pints. Do not apply within 7 days of harvest.

**COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kale, Mustard, Turnip)**: Aphids, Cabbage Looper, Imported Cabbage Worm; 2 to 3 pts. Do not apply within 3 days of harvest on broccoli and turnip; within 7 days of harvest on other cole crops.

**CORN**: Aphids, Corn Rootworm Adults, Sap Beetles, Thrips, 1 1/2 pts. Do not apply within 5 days of harvest or forage use.  
Caution: Injury may occur in the whorl and silk stage.

**CUCURBITS (Cucumber, Melon, Pumpkin, Squash)**: Aphids, Spider Mites, Pickleworms; 2 pts. Cucumber Beetles, 2 4/5 pts. Do not apply to Cucurbits unless plants are dry. Do not apply within 3 days of harvest on pumpkins, 1 day of harvest on other cucurbit crops.

**EGGPLANT**: Aphids, Lace Bugs, Spider Mites, 2 to 3 pts. Use higher rate for Lace Bug control. Do not apply within 3 days of harvest.

**GRASS AND CEREAL CROPS (Barnyard grass, Canary grass, Fescue, Orchard grass, Red Top, Timothy and Yellow foxtail; Barley, Corn, Oats and Wheat)**: Cereal Leaf Beetle, 1 1/2 pts. Do not apply within 7 days of harvest or forage use on barley, oats and wheat. 5 days of harvest or forage use on corn and grasses.

**LETTUCE**: Aphids, Cabbage Looper, Leafhoppers, Mites, 3 pts. Do not apply within 14 days of harvest on leaf lettuce. 7 days on head lettuce.

**ONIONS**: Onion Maggots, Thrips, 2 to 3 pts. Use the heavier rate for onion maggot control and apply when flies first appear. Repeat every 4 days. Do not apply within 3 days of harvest on green onions.

**ACCEPTED**  
 8/16/72  
 3468 13

\_\_\_\_\_ GAL NET

# MALATHION

CONTAINS

**CYTHON**  
THE PREMIUM GRADE MALATHION  
 TRADE MARK OF AMERICAN CYANAMID COMPANY

5-E

**AN AGRICULTURAL INSECTICIDE  
EMULSIFIABLE LIQUID**

**ACTIVE INGREDIENTS:**

Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate).....	56.0%
Xylene Range Aromatic Solvent.....	33.5%
<b>INERT INGREDIENTS:</b> .....	10.5%
100.0%	

Contains 5 lbs. Malathion per gallon.

**CAUTION: Keep Out of Reach of Children**

Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly after handling. Wash contaminated clothing before re-use. Do not contaminate food and feed.

**NOTE TO PHYSICIANS:** Malathion, upon use, may cause cholinesterase inhibition. Atropine is antidotal.

**DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.**  
Protect From Temperatures Below 0°F.

Do not reuse empty container. Destroy it by perforating or crushing. Bury or discard in a safe place away from water supplies.

EPA REG. N. 3468-13

**RECOMMENDATIONS**

**PEAS** Pea Aphid, Pea Weevil, 1 1/2 to 2 pints. Use higher rate for Armyworm control. Do not apply during bloom. May be applied on day of harvest or grazing.

**PEPPERS** Aphids, 2 pints. Do not apply within 7 days of harvest.

**POTATOES** Aphids, 2 pints. Do not apply within 7 days of harvest.

**SMALL GRAINS (Barley, Oats, Wheat)**: Aphids, European Leafhoppers, F. 1 1/2 to 2 pints. Use higher rate for Armyworm control. Make thorough, hatching areas when in bloom. Do not apply within 7 days of harvest.

**SPINACH**: Aphids, 2 pints. Do not apply within 7 days of harvest.

Aphids, European Leafhoppers, F. 1 1/2 to 2 pints. Use higher rate for Armyworm control. Make thorough, hatching areas when in bloom. Do not apply within 7 days of harvest.

**STORAGE/PE** Flat Grain Beetle, Saw-toothed Grain Weevil, Indian Meal Moth, etc. Do not store in areas where food is stored. Do not store in areas where food is stored.

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For use in any meat processing plant.

**STRAIGHT**

Amount of Spray: 2 1/2 gal, 12 gal, 100 gal.

Apply spray to painted surface whitewashed to prolong the life. CAUTION: Avoid contact with food and food products before the reach of children.

**OBSERVE THE FOLLOWING  
USE PRECAUTIONS**

Observe use limitations given on the label for specific crops.

In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of waste.

To protect bees, do not apply when crops are in bloom. Remove or cover hives if application is necessary during bloom.

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Pour specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily but tends to separate as an oily layer, do not use, as injury to plants may result. Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. ALWAYS thoroughly emulsify this product with at least half of total water before adding wettable powder.

**RECOMMENDATIONS**

Unless otherwise indicated, dosages are given in pints of Malathion 5-E in sufficient water to cover one acre. Thorough, full coverage applications should be made. Begin applications when insects first appear and repeat as necessary.

NOTICE: Seller's guarantee shall be limited to the terms of the label, and subject there to the buyer assumes any risk to persons or property arising out of use or handling and accepts the product on these conditions.

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**ALFALFA, CLOVER:** Alfalfa, Weevil Larvae, Aphids, Armyworms, Grasshoppers, Lygus Bugs, Potato Leafhoppers, Spider Mites, Spittlebugs: 1 1/2 to 2 pints. Use higher rate for Armyworm control. Do not apply during bloom. May be applied on day of harvest or grazing.

**ASPARAGUS:** Asparagus Beetles, Thrips: 2 pts. Do not apply within 1 day of harvest.

**BEANS:** Aphids, Cucumber Beetles, Japanese Beetles, Mexican Bean Beetles, Potato Leafhoppers, Spider Mites, 2 pts. Do not apply within 1 day of harvest.

**BEETS, TABLE:** Aphids, 2 pts. Do not apply within 7 days of harvest.

**CELERY:** Aphids, Spider Mites: 2 pints. Do not apply within 7 days of harvest.

**COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kale, Mustard, Turnip):** Aphids, Cabbage Looper, Imported Cabbage Worm: 2 to 3 pts. Do not apply within 3 days of harvest on broccoli and turnip; within 7 days of harvest on other cole crops.

**CORN:** Aphids, Corn Rootworm Adults, Sap Beetles, Thrips: 1 1/2 pts. Do not apply within 5 days of harvest or forage use. Caution: Injury may occur in the whorl and silk stage.

**CUCURBITS (Cucumber, Melon, Pumpkin, Squash):** Aphids, Spider Mites, Pickleworms: 2 pts. Cucumber Beetles: 2 4/5 pts. Do not apply to Cucurbits unless plants are dry. Do not apply within 3 days of harvest on pumpkins; 1 day of harvest on other cucurbit crops.

**EGGPLANT:** Aphids, Lace Bugs, Spider Mites: 2 to 3 pts. Use higher rate for Lace Bug control. Do not apply within 3 days of harvest.

**GRASS AND CEREAL CROPS (Barnyard grass, Canary grass, Fescue, Orchard grass, Red top, Timothy and Yellow foxtail; Barley, Corn, Oats and Wheat):** Cereal Leaf Beetle: 1 1/2 pts. Do not apply within 7 days of harvest or forage use on barley, oats and wheat, 5 days of harvest or forage use on corn and grasses.

**LETTUCE:** Aphids, Cabbage Looper, Leafhoppers, Mites, 3 pts. Do not apply within 14 days of harvest on leaf lettuce, 7 days on head lettuce.

**ONIONS:** Onion Maggots, Thrips, 2 to 3 pts. Use the heavier rate for onion maggot control and apply when flies first appear. Repeat every 4 days. Do not apply within 3 days of harvest on green onions.

**ACCEPTED**  
8/16/72  
EPA REG. N. 3468-13  
COMMENTS:



\_\_\_\_ GAL. NET

**MALATHION**

CONTAINS **5-E**



**AN AGRICULTURAL INSECTICIDE  
EMULSIFIABLE LIQUID**

**ACTIVE INGREDIENTS:**

Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate)	56.0%
Xylene Range Aromatic Solvent	33.5%
<b>INERT INGREDIENTS:</b>	10.5%
Contains 5 lbs. Malathion per gallon. <b>100.0%</b>	

**CAUTION: Keep Out of Reach of Children**  
Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly after handling. Wash contaminated clothing before re-use. Do not contaminate food and feed.

**NOTE TO PHYSICIANS:** Malathion, upon use, may cause cholinesterase inhibition. Atropine is antidotal.  
**DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.**  
Protect From Temperatures Below 0°F.

Do not reuse empty container. Destroy it by perforating or crushing. Bury or discard in a safe place away from water supplies.

EPA REG. N. 3468-13

Manufactured by  
**SCHALL CHEMICAL, INC.** Monte Vista, Colorado

**RECOMMENDATIONS**

**PEAS:** Pea Aphid, Pea weevil: within 3 days of harvest.

**PEPPERS:** Aphids: 2 1/2 days of harvest.

**POTATOES:** Aphids, Leafhoppers, Colorado Potato Beetle, Colorado Potato Beetle: 1 1/2 to 2 pts. Use higher rate. Make thorough, full coverage applications when nymphs hatching areas when nymphs within 7 days of harvest.

**SPINACH:** Aphids: 2 pts of harvest.

Aphids, European Leafhoppers, Rootworms: Use 1 1/2 pts. per acre.

Azalea Scale, Bayberry Scale, Juniper Scale, Nymphal Scale, Scale, For Fletcher, Juniper Scale: CAUTION: Avoid species of Arvo.

**STORAGE/PES:** Flat Grain Beetle, Saw-toothed Grain Beetle, Barley Weevil, Indian Meal Moth, Indian Meal Moth: walls, floors and loading grain). Elevators, boxcars, bins, etc. Grains going to be loaded or turned over surface of.

For use in and around processing plants.

**STRAIGHT**

Amount of	
Spray	2 1/2 gal.
	12 gal.
	100 gal.

Apply spray at recommended rates on painted surfaces whitewashed surfaces to prolong the insecticide. CAUTION: Avoid and food products before treatment reach of children.



GAL. NET

# MALATHION



**AN AGRICULTURAL INSECTICIDE  
EMULSIFIABLE LIQUID**

**ACTIVE INGREDIENTS:**

Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate)..... 56.0%

Xylene Range Aromatic Solvent..... 33.5%

**INERT INGREDIENTS:**..... 10.5%

Contains 5 lbs. Malathion per gallon. 100.0%

## CAUTION: Keep Out of Reach of Children

Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly after handling. Wash contaminated clothing before re-use. Do not contaminate food and feed.

**NOTE TO PHYSICIANS:** Malathion, upon use, may cause cholinesterase inhibition. Atropine is antidotal.

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Protect From Temperatures Below 0°F.

Do not reuse empty container. Destroy it by perforating or crushing. Bury or discard in a safe place away from water supplies.

EPA REG. N. 3468-13

Manufactured by  
**SCHALL CHEMICAL, INC.** Monte Vista, Colorado

### RECOMMENDATIONS (Continued)

**PEAS:** Pea Aphid, Pea Weevil: 2 pts. Do not apply within 3 days of harvest.

**PEPPERS:** Aphids: 2½ pts. Do not apply within 3 days of harvest.

**POTATOES:** Aphids, Leafhoppers, 2 pts.

**SMALL GRAINS (Barley, Oats, Rye, Wheat):** Armyworms, English Grain Aphids, Grasshoppers, Greenbugs: 1½ to 2 pts. Use higher rate for Armyworm control. Make thorough, full coverage application to hatching areas when nymphs are young. Do not apply within 7 days of harvest.

**SPINACH:** Aphids: 2 pts. Do not apply within 7 days of harvest.

**SUGAR BEETS:** Aphids, Spider Mites: 1½ to 2 pts. Do not apply within 7 days of harvest if tops are to be used for food or feed.

**TOBACCO:** Aphids: 2 pts.

**TOMATOES:** Aphids, Spider Mites, 2 pts. Drosophila Flies: 2½ pts. Do not apply within 1 day of harvest.

**PASTURE AND RANGE LAND:** Aphids, Grasshoppers, Leafhoppers: 1½ to 2 pts. per acre in sufficient water for good coverage. Or use 1½ pts. in 1 gallon of diesel fuel oil per acre by means of an airplane or a turbine-blower type sprayer. May be applied on day of harvest or grazing.

**WASTELANDS, ROADSIDES, SOIL-BANK LANDS (not grazed):** Grasshoppers: 1½ to 3 pts. per acre in water for good coverage or in 1 gal. diesel fuel oil per acre by means of an airplane or a turbine-blower type sprayer.

### ORNAMENTALS

Aphids, European Pine Shoot Moths, Four-lined Leaf Bugs, Japanese Beetle Adults, Mealybugs, Potato Leafhoppers, Rose Leafhoppers, Scurfy Scale, Spider Mites, Tarnished Plant Bugs, Thrips, White Flies, - Use 1½ pts. per 100 gal. dilute spray (1½ teaspoonful per gallon).

Azalea Scale, Bagworms, Birch Leaf Miner, Boxwood Leaf Miner, Fletcher Scale, Florida Red Scale, Juniper Scale, Magnolia Scale, Oak Kermes, Pine Leaf Scale, Tent Caterpillar - Use 2 pts. per 100 gal. dilute spray (2 teaspoonful per gallon).

For Fletcher, Juniper and Oak Kermes Scales, apply when scale crawlers have settled on foliage. **CAUTION:** Avoid use on certain ferns including Boston, Maidenhair and Pteris, as well as on some species of Crassula.

**STORAGE/PEST PROTECTION:** For protection against Confused Flour Beetle, Indian Meal Moth, Flat Grain Beetle, Granary Weevil, Lesser Grain Borer, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle, Saw-toothed Grain Beetles, and for the control of Cereal Leaf Beetle if they are present.

**GRAINS:** Barley, Corn, Grain Sorghum, Oats, Rice, Rye, Wheat: Residual Spray Before Storing: (For walls, floors and machinery in grain elevators, in treating truck beds, boxcars and ships holds before loading grain). Use 1 gal. per 25 gal. water. Make thorough application. Before applying spray, clean elevators, boxcars, truck beds, etc. thoroughly. Remove and bury all sweepings and debris.

**Grains Going Into Storage:** Use 1 pt. in 2 - 5 gal. water per 1000 bushels. Apply as grain is being loaded or turned into final storage. **Grains After Storage:** To protect clean or uninfested grain from Indian Meal Moth, use ½ pt. in 1 - 2 gal. water per 1000 sq. ft. of grain surface area. Apply evenly over surface of grain. Apply immediately after grain is loaded into storage and repeat if necessary.

### FLY CONTROL

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

#### STRAIGHT MALATHION SPRAYS

Amount of Spray	Amount of Malathion 5-E	Amount of Bait Spray
2½ gal.	1 cup	2½ gal.
12 gal.	1 qt.	12 gal.
100 gal.	2 gal.	100 gal.

#### MALATHION BAIT SPRAYS

Amount of Malathion 5-E	Sugar (or)	Unsulphurized Molasses or Corn Syrup
1 cup	1 cup	1 cup
1 qt.	2½ lb.	1 qt.
2 gal.	20 lb.	2 gal.

Apply spray at 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. Do not apply malathion within 14 days to freshly whitewashed surfaces. Sugar, unsulphurized molasses, or corn syrup have been found in most cases to prolong the insecticidal activity of malathion against flies.

**CAUTION:** Avoid contamination of milk, milk equipment and water. Avoid contamination of feed and food products, also drinking fountains and feed troughs. Remove lactating animals from buildings before treating. Also remove calves under one month of age before treating. Do not leave within reach of children.

REGISTERED  
72  
INSECTICIDE ACT  
REGISTERED  
13 SUBJECT  
ENTS.

# DILUTION CHART

ACCEPTED

MAR 4 1976

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. *4889-115*

IM 2-76

Insect	Malathion 50%	Water	For Bait Spray	
			Sugar*	or Molasses
FLIES	½ pt.	3 gals.	3 lb.	3 pts.
	1 pt.	6 gals.	6 lb.	6 pts.
	1 qt.	12 gals.	12 lb.	6 qts.
	1 gal.	50 gals.	50 lb.	6 gals.
	2 gal.	100 gals.	100 lb.	12 gals.
HOUSEHOLD PESTS	4 fl. oz.	1 gal.		
	1 pt.	4 gal.		
	1 qt.	8 gal.		
	1 gal.	24 gal.		

\*Use sugar or plain molasses without sulfur dioxide or other preservatives. Powdered sugar will be more effective than granulated.

**WARNING - FLAMMABLE! KEEP AWAY FROM HEAT OR OPEN FLAME.  
DO NOT STORE NEAR HEAT OR OPEN FLAME.**

**CONTAINER DISPOSAL:** Do not reuse empty containers. Crush and bury at least 18 inches deep in a safe place away from water supplies.

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NET CONTENTS \_\_\_\_\_ GALS.



**PREMIUM GRADE**

# 50.00% MALATHION EMULSIFIABLE CONCENTRATE

**CAUTION:** KEEP OUT OF REACH OF CHILDREN  
(READ CAUTIONS ON SIDE PANEL)

**ACTIVE INGREDIENTS**

*Malathion	50.00%
Methylated Aromatic Petroleum Derivatives	42.3%
INERT INGREDIENTS	7.7%

100.00%

\*O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate  
Contains 4.4 lbs. of Malathion per gal. at 70 degrees F.

Manufactured by  
**STEPHENSON CHEMICAL CO., INC.**  
COLLEGE PARK, GEORGIA

To Control FLIES, ROACHES, MOSQUITOES, ANTS and WATERBUGS.

For Use By Professional Pest Control Operators

## DIRECTIONS

**FLY CONTROL** - Spray all surfaces where flies alight or congregate. Dilute this concentrate to the dilution chart and treat around dwellings, outbuildings, animal quarters, poultry piles, garbage heaps, city dumps, etc. If a bait spray is prepared the spray will be much more effective. **FOR BAIT SPRAY** Use sugar or plain molasses as indicated on dilution chart.

**HOUSEHOLD PESTS** - For control of Roaches, Ants, Spiders, Silverfish, Crickets, Clover mites, in and about homes, dairy and food processing plants, use this concentrate as indicated on dilution chart and apply by means of a coarse spray or paint brush to window sills, baseboards, sinks, drainboards, stoves and to other areas frequented by insects, taking care not to get on clothing or utensils. Application should be repeated as necessary.

**DO NOT USE THIS SPRAY WHERE MILK IS PROCESSED OR STORED. AVOID CONTACT WITH FEED AND FOOD PRODUCTS, OR WATER, REMOVE ANIMALS AND POULTRY FROM BARN AND OTHER BUILDINGS. DO NOT USE ON ANIMALS.**

**DO NOT USE IN EDIBLE PRODUCTS AREAS OF FOOD PROCESSING PLANTS, RESTAURANTS, AND OTHER AREAS WHERE FOOD IS COMMERCIALY PREPARED OR PROCESSED. DO NOT USE IN SERVING AREAS WHILE FOOD IS EXPOSED.**

EPA Reg. No. 4887-115

EPA Est. 4887-G