

MALATHION 5

An emulsifiable concentrate containing 5 pounds of malathion per gallon

ACTIVE INGREDIENTS

Malathion (O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate)..... 56.8%

INERT INGREDIENTS*..... 43.2%

TOTAL 100.0%

Contains 5 pounds malathion per gallon.

*Contains 35.2% of Xylene range aromatic solvent

ACCEPTED

FEB 16 1989

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 9779-5

STOP--READ LABEL BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

WARNING--AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact your local poison control center, hospital, or physician. If the patient is unconscious, maintain breathing and heartbeat (cardiopulmonary resuscitation). If the patient is conscious and alert, induce vomiting (syrup of ipecac or stimulate the back of throat with finger). Never give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash with soap and water.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

NOTE TO PHYSICIAN: Malathion is an acetyl cholinesterase inhibitor. Atropine is antidotal.

See additional PRECAUTIONARY STATEMENTS on side panel.

EPA Reg. No. 9779-5

EPA Est. Nos. 9779-AR-1P

9779-AL-1M

9779-TX-3T

(Lot no. indicates establishment.)

Manufactured For

RIVERSIDE/TERRA CORPORATION

Terra Centre, 600 Fourth Street, Sioux City, Iowa 51101

Riverside Serves Agriculture. Agriculture Serves Everyone.

NET CONTENTS

2-1/2 GALLONS

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PRECAUTIONARY STATEMENTS
WARNING--AVISO
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid breathing spray mist. Avoid contact with skin or clothing. Wash skin thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

This product 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 OR CHEMICAL 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.

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

REENTRY STATEMENT

Do not enter treated area without protective clothing until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type of garment (all of closely woven fabric covering the body, including the arms and legs), gloves, shoes and socks. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

NOTICE TO CROP OWNERS

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. In case of accidental exposure follow the information given under STATEMENT OF PRACTICAL TREATMENT and have exposed person(s) see a physician. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING:** Area treated with malathion on (date). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, refer to STATEMENT OF PRACTICAL TREATMENT on the label.

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STORAGE AND DISPOSAL
DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable products in a sound container. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of in site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Plastic Containers--Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers--Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

GENERAL INFORMATION

MALATHION 5 may be applied by ground sprayers or by airplanes, mixing the MALATHION 5 in water to form an emulsion spray solution. To make the spray solution, half fill the spray tank with water, agitate, add the proper amount of MALATHION 5 and then fill the spray tank with water while still agitating. Continue to agitate during use.

When applying with ground sprayers, calibrate so as to apply the recommended amount of MALATHION 5 in not less than 3 gallons of water per acre. Airplanes should apply the recommended amount of MALATHION 5 in not less than 1 gallon of water per acre. Always use sufficient water for adequate coverage of the crop foliage.

The dosages given under DIRECTIONS FOR USE are the amounts of MALATHION 5 to be applied per acre treated per application. Repeat applications as necessary, unless otherwise directed in DIRECTIONS FOR USE.

Where a dosage range is given, use the lower rate on small or young plants or with light insect infestations; use the higher rate on large or more mature plants or with heavy insect infestations. The hazards and precautions for handling MALATHION 5 in this container are equally applicable to it after dilution with water for spray application.

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APPLES

To control spider mites such as European red mite, two-spotted mite, Willamette mite and clover mite, make two or more applications as needed of a spray containing 1 or 2 pints of MALATHION 5 per 100 gallons of water. For certain mites such as two-spotted and Willamette, use at least two applications 10 to 12 days apart during summer months.

To control woolly apple aphid and budmoth, make one or more applications, as needed, of a spray containing 1 pint per 100 gallons of water.

To control green apple aphid and rosy aphid, make one or more applications, as needed, of a spray containing 1-1/2 pints per 100 gallons of water.

To control Forbes scale, apply 1 pint per 100 gallons of water. Make two or three thorough spray applications.

To control codling moth, plum curculio and red-banded leaf roller, use 2 pints per 100 gallons of water. Repeat application as necessary.

Fruit injury may occur to McIntosh and Cortland varieties if spray is applied within 4 weeks of harvest. Do not apply within 3 days of harvest.

ORNAMENTALS

Make thorough, full-coverage spray with repeated applications as necessary. For scales, apply when crawlers have settled on foliage. Injury may occur on certain ferns, including Boston, Maidenhair and Pteris, as well as some species of crassula.

Apply 1 pint per 100 gallons of water to control lacebugs and oyster shell scale. Apply 1-1/2 pints per 100 gallons of water to control aphids, spider mites, whitefly, mealybugs, thrips, Japanese beetle adults, four-lined leaf bug, tarnished plant bug, rose leafhopper, potato leafhopper, European pine shoot moth, scurfy scale and euonymus scale.

Apply 2 pints per 100 gallons of water to control bagworms, tent caterpillar, birch leaf miner, boxwood leaf miner, oak kermes, juniper scale, Fletcher scale, Florida red scale, azalea scale, magnolia scale and pine leaf scale.

Apply 2-1/2 pints per 100 gallons of water to control soft brown scale, Monterey pine scale and black scale crawlers.

Apply 4 pints per 100 gallons of water to control pine needle scale.

PECANS

For control of aphids, spider mites, and walnut aphid, use 1-1/2 to 2 pints of MALATHION 5 per 100 gallons of water. For control of European red mite, use 1-1/4 pints per 100 gallons of water. For control of pecan phylloxera, pecan budmoth, and pecan leaf casebearer, use 1-1/4 pints per 100 gallons of water. Apply when buds begin to develop. Repeat as necessary. For control of pecan nut casebearer and walnut husk fly, apply 1-1/4 pints per 100 gallons of water after first generation eggs begin to hatch. Applications may be made on the day of harvest. Application rates are based on a standard of 500 gallons of dilute spray per acre for mature trees 25 to 35 feet high.

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STORED GRAINS

For the protection of stored grains, such as wheat, oats, rice, corn, rye, barley, grain sorghum, and field or garden seeds against 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, apply MALATHION 5 as follows:

GRAINS GOING INTO STORAGE: Apply 1 pint of MALATHION 5 in 2-5 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 MALATHION 5 to the surface of clean or uninfested grain at the rate of 1/2 pint in 1-2 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 for walls, floors, and machinery in grain elevators, truck beds, and box cars before loading grain: Mix 1 gallon of MALATHION 5 with 25 gallons of water and spray surfaces to point of run-off.

Clean elevators, box cars, etc. thoroughly before applying spray. Remove and burn all sweepings and debris.

STORED PEANUTS

For protection of stored peanuts against infestations of red flour beetle, Indian meal moth, confused flour beetle, rice weevil, flat grain beetle, rusty grain beetle, lesser grain borer, granary weevil, and saw-toothed grain beetle, apply MALATHION 5 as follows:

Residual Warehouse Spray--Before Storing Peanuts: Clean warehouse thoroughly of trash and old remains of peanuts 1 to 2 weeks before new peanut crop is stored. Thoroughly spray with sufficient pressure interior of empty warehouses (including cracks and protected places), outside walls to height of 6 to 8 feet and the ground to a distance of about 6 feet from warehouse by diluting 1 pint of MALATHION 5 in sufficient water to make 2-1/2 gallons of spray or 1 gallon with 19 gallons of water. Apply finished spray at the rate of 2 gallons per 1000 square feet or to run-off.

Bulk Spray Treatment--Peanuts Going Into Storage: Apply 2-1/2 pints of MALATHION 5 in 5 gallons of water per 15 tons of farmer's stock peanuts as they go into storage. Apply coarse spray uniformly. Preferably use suitable mechanical spray applicator which regulates rate of applicator to flow of peanuts. Otherwise, adjust pressure and size of nozzle opening to rate of flow of peanuts.

LIVESTOCK AND POULTRY

BEEF CATTLE, HORSES AND HOGS: For control of lice, ticks, and horn flies, mix 1 to 2 gallons of MALATHION 5 with 100 gallons of water and apply as a complete coverage spray. Do not treat animals under one month of age.

SHEEP AND GOATS: For control of lice, ticks, and keds, use 1 gallon of MALATHION 5 per 100 gallons of water or 6-1/2 ounces per 5 gallons of water. Spray animals thoroughly. Repeat application after 2 or 3 weeks if needed. Do not apply to milk goats. Do not treat animals under one month of age. Residue tolerance: 4 ppm in meat, fat and meat by-products.

POULTRY: For control of Northern Fowl Mite and Poultry Lice, mix 2 tablespoons of MALATHION 5 with 1 gallon of water. Apply 1 gallon of the mixture per 100 to 150 birds.

POULTRY HOUSES: For control of Northern Fowl Mite, Chicken Red Mite, and Poultry Lice, mix 4 tablespoons of MALATHION 5 with 1 gallon of water. Apply 3 gallons of mixture per 100 square feet of surfaces of walls, ceilings, roosts, nests, and adjacent areas, taking care to force the spray into all cracks and crevices. For control of Poultry Ticks, mix at the rate of 7 ounces of MALATHION 5 per gallon of water.

MOSQUITOES

OUTDOOR ADULT MOSQUITO CONTROL: For control of mosquitoes outdoors, use a 2X to 5X Malathion area or fog spray. For a 2X spray dilute 1 part of MALATHION 5 with 28 parts of water; for 5X, dilute 1 to 11. Repeat as necessary.

Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Application of this product to any body of water is prohibited.

MOSQUITO LARVAE CONTROL: For control of mosquito larvae in standing water, intermittently flooded areas, stagnant water, and temporary rain pools, apply 13 ounces of MALATHION 5 per acre. Mix in sufficient water or oil to obtain even coverage when applied by air or ground equipment. NOTE: CONTAMINATION OF SHALLOW, FISH-BEARING WATERS MAY KILL FISH.

FLIES

For the control of flies in and around buildings which house domestic animals, around yards and around homes, apply a spray containing 2 gallons of MALATHION 5 in 100 gallons of water. Apply the spray at the rate of one gallon per 1,000 square feet on painted surfaces, and two gallons per 1,000 square feet on unpainted surfaces where flies alight or congregate, such as walls, ceilings, stanchions, windows in dairy barns, fences, around garbage cans, etc. Repeat applications as necessary.

For a bait spray, use 2 gallons of MALATHION 5 with two gallons of unsulfurized molasses or corn syrup, or 20 pounds of sugar per 100 gallons of water. Use 3 gallons of this product with 40 pounds of sugar per 100 gallons if the fly population is severe. Repeat applications as necessary.

To control fly maggots in manure and loafing sheds, use 2 gallons of MALATHION 5 with 2 gallons of unsulfurized molasses or corn syrup or 20 pounds of sugar per 100 gallons of water. Apply as a drench spray over the surface of manure or poultry droppings. In loafing sheds, spray the dry bedding within 18 inches of the walls and around the upright braces. Repeat applications as necessary.

For treating floors in dairy barns, use 5 ounces of MALATHION 5 with 1 cup of corn syrup or sugar in two gallons of water. As a spot treatment, this mixture can also be applied to windows, stanchions, support beams, doors, etc. Repeat applications as necessary. In conjunction with Malathion treatments in and around dairy barns and other agricultural premises, fly breeding sites, such as manure and other waste material, should be eliminated. Do not apply to freshly white washed surfaces for 14 days. Sugar, unsulfurized molasses or corn syrup have been found in most cases to prolong the insecticidal activity of Malathion against flies.

Do not use in milk rooms. Avoid contamination of feed and food products. Remove animals and poultry from building before treating. Do not use in dwellings. Keep out of reach of children.

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Crop	Insects controlled	Amount to apply per acre	Prehar Crazin
CITRUS			
Grapefruit, Lemons, Limes, Oranges, Tangerines	California Red Scale, Yellow Scale, Purple Scale, Black Scale, Soft Scale, Citrocola Scale	1-1/2 pints	
	Red Scale, Purple Scale	1 1/4-2 pints	
	Thrips Do not apply during full bloom	1-1/4 pints	
FIELD CROPS			
Cotton	Boll Weevil For control of worms and weevils, use in combination with other recommended insecticides.	1-2 quarts	
	Desert Spider Mite, Cotton Aphid, Leafhoppers, White Flies, Cotton Leafworm, Brown Cotton Leafworm, Cotton Leaf Perforator, Thrips, Lygus Bugs	1-2 quarts	
	Fleahoppers	1-1 1/2 pints	
	Fall Armyworms, Grasshoppers, Garden Webworms	1 1/2-3 pints	
Peanuts	Thrips, Potato Leafhopper	1-1/2 pints	
Soybeans	Mexican Bean Beetle	2 1/2-3 pints	
Tobacco	Aphids Use maximum dosage in plant bed	1 1/2-2 1/2 pints	

8912

Crop	Insects controlled	Amount to apply per acre	Preharvest (days) or Grazing Intervals
FORAGE CROPS			
GRAIN CROPS			
Barley, Corn, Oats, Wheat	Cereal Leaf Beetle	1-1 1/2 pints	7 5 corn
Barley, Oats, Rye, Wheat	English Grain Aphid, Greenbugs, Grass- hoppers Make full coverage to hatching areas when nymphs are young.	1-1/2 pints	7
Alfalfa, Clover	Armyworms	2 pints	7
	Grasshoppers, Aphids, Leafhoppers, Spider Mites, Alfalfa Weevil Larvae, Spittlebug	1 1/2-2 pints	7
VEGETABLES AND FRUITS			
Asparagus	Asparagus Beetle Thrips	2 pints 1 1/2-2 pints	1
BEANS Lima, Green, Snap, Navy, Red Kidney, Wax, Cow-peas, Black-eyed peas	Mexican Bean Beetle	1-1/2 pints	1
	Leafhoppers, Aphids, Cucumber Beetle	2 pints	1
	Spider Mites	1-1 1/2 pints	1
	Japanese Beetle Make 2 or more applications as needed.	1 1/2-2 pints	1

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Crop	Insects controlled	Amount to apply per acre	Preharvest (days) or Grazing Intervals
COLE CROPS AND LEAFY VEGETABLES	Aphids	1 1/2-2 pints	7 3 Turnips and Broccoli 2 Parsley
Broccoli, Brussels Sprouts, Cabbage, Collards, Dandelions, Kale, Kohlrabi, Mustard Greens, Parsley, Swiss Chard, Turnips, Watercress	Flea Beetles (on Mustard Greens only)	1 1/2-2 pints	7
	Imported Cabbage Worms, Diamond-Back Moth Larvae (on Cauliflower, Collards, Brussels Sprouts and Broccoli only)	2 pints	7 3 Broccoli
	Harlequin Cabbage Bug (on Collards only)	1 pint	7
	Cabbage Looper	1-2 pints	7
LETTUCE	Leafhoppers, Aphids, Cabbage Looper NOTE: For control of cabbage loopers, use in combination with other recommended insecticides.	2 pints 3 pints	14-Leaf 7-Head
SPINACH	Aphids	2 pints	7
CUCURBITS	Aphids, Spider Mites, Pickleworm	1-1/2 pints	1
Cucumbers	Cucumber Beetles Do not apply unless plants are dry.	3 pints	1

10/26/12

Crop	Insects controlled	Amount to apply per acre	Preharvest (days) or Grazing Intervals
MELONS Cantaloupes, Casabas, Crenshaws, Honeydews, Honey Balls, Muskmelons, Persians, Watermelons	Pickleworm	1 1/4-2 1/2 pints	1
	Aphids, Spider Mites	1-1/2 pints	1
	Cucumber Beetles	2 pints	1
	Do not apply unless plants are dry.		
PUMPKINS Do not apply unless plants are dry. Make full-coverage applications weekly to stems and vines at base of plants.	Aphids, Mites	1-1/2 pints	3
	Squash Vine Borers	3 pints	3
SQUASH Do not apply unless plants are dry. Make full-coverage applications weekly to stems and vines at base of plants.	Aphids, Spider Mites	1-1/2 pints	1
	Pickleworm	2 pints	1
	Squash Vine Borers, Cucumber Beetles	3 pints	1
PEAS	Pea Weevil *7 day interval if vines are to be used as animal feed. 3 day interval if vines are NOT used as animal feed.	1 1/2-2 pints	*

10

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Crop	Insects controlled	Amount to apply per acre	Preharvest (days) or Grazing Interval
PEPPERS	Aphids	1 pint	3
	Pepper Maggots	2-1/2 pints	3
POTATOES	Aphids, Leafhoppers, Mealybugs	1 pint	0
	False Chinch Bug	1-1/2 pints	0
ROOT CROPS	Aphids *If tops are to be used as feed.	1 1/2-2 pints	7
Beets, Carrots, Horseradish, Parsnips, Radishes, Salsify, Rutabagas, Sweet Potatoes	Aphids	1 1/2-2 pints	7
	Leafhoppers	2 1/2 pints	7
	Aphids	1 1/2-2 pints	7
	Aphids	1-1/2 pints	3
	Leafhoppers	1 1/2-2 pints	3
	Morningglory Leafhoppers	2 1/2-3 pints	3
TOMATOES (outdoor)	Spider Mites	1 1/2 pints	1
	Aphids	1 pint	1
	Drosophila	2 1/2 pints	1
GRAPES The rates for use on grapes are based on a standard of 200 gallons per acre dilute spray. Injury may occur on grapes of Almeria, Cardinal, Italia and Riberia varieties when sprays containing MALATHION 5 are applied after clusters appear.	Leafhoppers Spider Mites	3 pints	3
	European Fruit Lecanium Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom.	3 pints	3
	Mealybugs Apply in 50-100 gallons of water per acre.	1 1/2 pints	3

INSECTICIDE, LIQUID, NOS (CONTAINS MALATHION) COMBUSTIBLE LIQUID, NA 1993, RQ

11

foreseeable to Seller and Buyer assumes the risk of any such use.

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