

PM 1386-124 1/4
12.31.89

Malathion-5
Emulsifiable Concentrate

KEEP OUT OF REACH OF CHILDREN
CAUTION
See Side Panel For Additional Precautionary Statements
And Attached Booklet For Directions For Use

ACTIVE INGREDIENT:

Malathion*	57.00%
INERT INGREDIENTS	43.00%
Total	100.00%

*O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate.
Contains 5 Pounds of Malathion Per Gallon.

NET VOLUME: 1 Gallon

EPA Reg. No. 1386-124
EPA Est. No. 1386-OH-1

Not Reviewed. Registrant claims to be in accordance with
Registration of Pesticide Products for Phase 2
Labeling, Page 2-12, Access to Information in English.



UNIVERSAL COOPERATIVES, INC., MINNEAPOLIS, MN 55440

Green, Hart, Jackson, Laurel, Livingston, Marshall, McCracken, McCreary, Pulaski, Rockcastle, Taylor, Warren, Wayne. MISSISSIPPI: Claiborne, Copiah, Hinds, Neshoba, Lowndes, Monroe, Neshoba. MISSOURI: Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone, Webster. NEVADA: Clark. NEW MEXICO: Chavez, DeBaca, Eddy. NORTH CAROLINA: Edgecombe, Nash. OHIO: Pickaway. OKLAHOMA: Delaware, McCurtain, Pushmataha. OREGON: Lata. TENNESSEE: Bedford, Blount, Claiborne, Decatur, Franklin, Hancock, Hardin, Hickman, Knox, Lawrence, Lincoln, Loudon, Marshall, Maury, Meigs, Monroe, Polk, Roane, Scott, Sequatchie, Smith, Sullivan, Wayne. TEXAS: Bastrop, Burleson, Comal, Harris, Hays, Jeff Davis, Pecos, Reeves. UTAH: Utah, Washington. VIRGINIA: Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise.

SEE ATTACHED BOOKLET FOR ADDITIONAL DIRECTIONS FOR USE.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of fitness or of merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

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SEE ENCLOSED BOOKLET
FOR ADDITIONAL DIRECTIONS FOR USE

PRE

A

Harmful if in contact with skin after using. Avoid.

STATE

If on skin, wash with water. If inhaled, remove contaminated clothing. If in eyes, flush with water.

E

This product is toxic. Keep it away from children and animals. Do not apply to food crops, ornamentals, or lawns.

PHYT

Do not use

It is a violation of Federal Law to use this product in a manner inconsistent with the label. DO NOT APPLY TO FOOD CROPS.

END

Before using this product, read the label carefully. The label contains important information about the safe and effective use of this product. It is the responsibility of the user to read and understand the label. If you do not understand the label, do not use the product. For more information, contact your local extension agent or the manufacturer.

ALABAMA: Dale, Limestone, Sumter, ARIZ: Pinal, Santa Cruz, Lower St. Francis, G. Kern, Merced, Sutter, Tenner, Palo Verde, COI

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing. Wash thoroughly after using. Avoid contamination of feed and foodstuffs.

STATEMENT OF PRACTICAL TREATMENT

If on skin, wash affected areas with soap and water. If inhaled, remove victim to fresh air. Apply respiration if indicated. If in eyes, flush eyes for at least 15 minutes with water.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, shrimp, crabs, and other wildlife. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity. Further protection information may be obtained from your Cooperative Agricultural Extension Service. Apply this product only as specified on this label.

PHYSICAL OR CHEMICAL HAZARDS

Do not use 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.

Mix this concentrate with water as directed below for application as a spray, or mix with fuel oil for use in back rubber devices for beef cattle. Make thorough full coverage applications of the spray and repeat applications as stated in all cases.

BERRIES, VEGETABLES, AND FIELD CROPS

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.

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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. Oral warnings must inform workers of areas or fields that may not be entered without wearing specific protective clothing until sprays have dried and of appropriate actions to take in case of accidental exposure (refer to Statement of Practical Treatment). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "CAUTION: Area treated with Malathion on (insert date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, follow these procedures (insert information found under Statement of Practical Treatment)."

cabbage, chard, cauliflower, celery, cucumber, eggplant, kale, lettuce, mustard greens, peas, peppers, potato, spinach, squash, tomato, and turnip. LEAFHOPPERS—On beans, melons, cucum-

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ber, celery, eggplant, squash, and tomatoes. MEXICAN BEAN BEETLE—On beans. IMPORTED CABBAGE WORM AND CABBAGE LOOPER—On broccoli, Brussels sprouts, cabbage, cauliflower, kale, lettuce, and mustard greens. THRIPS—On asparagus and onions. PEPPER MAGGOT—On peppers. CUCUMBER BEETLES—On melons, cucumbers, and squash. ASPARAGUS BEETLE—On asparagus. MEALYBUG—On potatoes. PEA WEEVIL—On peas. DROSOPHILA—On tomatoes.

DO NOT APPLY TO BEANS, MELONS, CUCUMBERS, SQUASH, OR TOMATOES WITHIN 1 DAY OF HARVEST. APPLY TO CUCUMBERS ONLY WHEN THE FOLIAGE IS DRY. DO NOT APPLY TO BROCCOLI, PEPPERS, GREEN ONIONS, PEAS, OR TURNIPS (INCLUDING TOPS) WITHIN 3 DAYS OF HARVEST. DO NOT APPLY TO BEETS, BRUSSELS SPROUTS, CABBAGE, CARROTS, CAULIFLOWER, CELERY, KALE, MUSTARD GREENS, SPINACH, OR HEAD LETTUCE WITHIN 7 DAYS OF HARVEST. DO NOT APPLY TO LEAF LETTUCE WITHIN 14 DAYS OF HARVEST.

FIELD CROPS

ALFALFA—To control aphids including spotted alfalfa aphid, leafhoppers, spider mites, spittlebug, and alfalfa weevil larvae, use 1 1/2 to 2 pints (0.93 to 1.25 pounds Malathion) per acre, in the amount of water required for uniformly thorough coverage. Begin applications when insects first appear and repeat at 7 to 10-day intervals as necessary. Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of hives. May be grazed or harvested on day of application.

GRASS CROPS (including Green Sorghum)—Grasshoppers and leafhoppers—Use at the rate of 1 1/2 to 2 pints (0.93 to 1.25 pounds Malathion) per acre in quantity of water required for uniformly

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thorough coverage. ARMY WORM—Use 2 pints (1.25 pounds Malathion) per acre. Apply when larvae are small. A limitation of 7 days pre-harvest should be given.

IN CROPS (Barley, Corn, Oats, Wheat)—Cereal Leaf Beetle—Use the rate of 1 to 1 1/2 pints (625 to 93 pounds Malathion) in quantity of water required for uniformly thorough coverage. Bugs and grasshoppers use 1 to 1 1/2 pints (625 to 93 pounds Malathion) per acre. Make full coverage to hatching areas when nymphs are young. Army Worm—Use 2 pints (1.25 pounds Malathion) per acre in quantity of water required for uniformly thorough coverage. Do not apply to Barley, Oats, and Wheat within 7 days of harvest. Do not apply to corn within 5 days of harvest.

ORNAMENTAL PLANTS

To control the following on ornamentals, mix the indicated dosage with 100 gallons of water. Apply spray when insects are first observed and repeat as necessary.

OYSTER SHELL SCALE—1 pint. APHIDS, SPIDER MITES, JAPANESE BEETLE ADULTS, LEAFHOPPERS, THRIPS, AND SCURFY SCALE—1 to 2 pints. BIRCH LEAFMINER, BOXWOOD LEAFMINER, AZALEA SCALE, PINE LEAF SCALE, AND MAGNOLIA SCALE—2 pints. Do not use on Boston, Maidenhair, or Pteris ferns. Do not use on petunias. May cause injury to Crassula.

BEEF CATTLE

SPRAY—To control the insects stated below, use the indicated amount of concentrate mixed in 100 gallons of water and apply as a complete coverage spray to each animal.

LICE—1 gallon. One treatment may be sufficient; repeat application only if needed. TICKS—1 to 2 gallons. Repeat applications at 2 week intervals if needed. HORN FLIES—1 to 1 1/2 gallons. Repeat applications at 2 week intervals if needed.

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1 gallon of the diluted mixture per 100 to 150 birds. Repeat in 4 to 8 weeks if necessary.

PREMISE TREATMENT—To control northern fowl mite, chicken red mite, poultry lice, and flies, use 4 tablespoons in 1 gallon of water, and spray thoroughly the walls, ceilings, roosts, and nests, and adjacent areas, taking care to force the spray into all cracks and crevices. Repeat as necessary. Use high pressure sprayer for surface application.

ROOST PAINT—To control chicken red mite and poultry lice, use 4 tablespoons in 1 gallon of water. Brush on this mixture as a roost paint at the rate of 1 pint per 150 feet of roost. Repeat as necessary.

DO NOT CONTAMINATE FEED, FEED CONTAINERS, FEEDING TROUGHS, WATERING CUPS, TROUGHS, OR FOUNTAINS

DILUTION RATE FOR SMALL APPLICATION EQUIPMENT

Amount in 100 Gallons	Amount in 1 Gallon
1 Pint	1 Teaspoon
1 Gallon	2 1/2 Tablespoons

The dosage rate of 2 pints per acre is equivalent to approximately 1/2 teaspoon per 1,000 square feet, which usually can be applied to that area in 3 gallons of water in a typical compressed air sprayer.

MOSQUITO CONTROL

ADULT MOSQUITO CONTROL—To control adult mosquitoes outdoors, in backyards, in areas of ornamental shrubbery, and on lawns, use a 2% to 5% area or fog spray. For a 2% spray, dilute 1 part Malathion 5 Emulsifiable Concentrate with 28 parts of water, fuel oil, or diesel oil. For a 5% spray, dilute 1 to 11. Apply water based spray uniformly, into and around the ornamental vegetation. Apply oil based fog to uniformly penetrate into and around the or-

naid sufficient pressure interior of empty warehouse (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 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 1,000 square feet or to run-off.

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

Supplemental Surface Spray: After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1 3/4 pounds of UNIVERSAL's 25% Premium Grade Malathion Wettable Powder in 2 gallons of water and apply at the rate of 2 gallons per 1,000 square feet of surface. Apply first treatment as soon as bin is filled and leveled, but not later than the first week in October. Apply the second surface treatment 1 month later, followed by treatments at 2 month intervals. Use a piston type power spray equipped with agitator and nozzle capable of delivering a coarse spray. Repeat surface application 60 days later if warm temperatures prevail. Otherwise delay further treatment until late winter.

SEE CONTAINER LABEL FOR STORAGE AND DISPOSAL, AND THE WARRANTY AND LIMITATION OF DAMAGES

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naid ornamental vegetation. Repeat applications as needed. Do not apply to areas where food or feed crops are growing. Do not apply or mixture for fogging directly to ornamental plants.

MOSQUITO LARVAE CONTROL—For control of mosquito larvae in standing water (intermittently flooded areas, stagnant water, temporary rain pools), apply 1 fluid ounce of Malathion 5 Emulsifiable Concentrate per acre, mixed 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.

GRAIN AND PEANUT PROTECTANT

CLEANUP SPRAY (Before Storing Grain or Peanuts)—Since many of the insects which commonly infest grain or peanuts in storage continue to live and breed in residues and debris, the bins, storage areas, elevators, and handling equipment such as trucks and conveyors, should be thoroughly cleaned before storing the new crop. Remove and burn all sweepings and debris. The ground outside should be kept free of debris since this material also breeds insects.

Before the new grain or peanuts go into storage, a spray made by mixing 1 gallon of this concentrate in 19 gallons of water (1 pint in 2 1/2 gallons) should be applied to walls, floors and ceilings of bins, warehouses, and other storage areas including farm storage. Spray also handling equipment and truck beds. Spray all surfaces to the point of runoff, making sure the spray is driven into joints, corners, cracks, and crevices where insects may be concealed.

GRAIN PROTECTION—For protection of stored grain (wheat, oats, rice, corn, rye, barley, and grain sorghum) against infestation by insects which attack grain in storage such as the weevil, grain weevil, lesser grain weevil, cigarette, saw-toothed grain beetle, red flour beetle, confused flour beetle, flat grain beetles, rust,