



50% MALATHION EMULSIFIABLE CONCENTRATE

FOR HOUSEHOLD INSECTS - FLEAS ON DOGS AND CATS -
ORNAMENTAL PEST CONTROL - FRUIT INSECT CONTROL - VEGETABLE
GARDENS - LIVESTOCK PEST CONTROL - STORED GRAINS -
CITRUS INSECT CONTROL - PEANUTS IN STORAGE - FLOWER GARDENS
GREENHOUSE VEGETABLES - MUSHROOMS

ACTIVE INGREDIENT:

Malathion: O,O dimethyl phosphorodithioate
of diethyl mercaptosuccinate . . . 50.0%

INERT INGREDIENTS: * 50.0%
Total 100.0%

Contains "CYTHION Insecticide" "The Premium Grade Malathion"
Registered Trade Mark American Cyanamid Company

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENTS OF PRACTICAL TREATMENTS

IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving
victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give
anything by mouth to an unconscious or convulsing person.

IF IN EYES: Flush eyes with plenty of water. Get medical attention.

IF ON SKIN: Remove contaminated clothing and wash affected area with soap and water. Get medical
attention if irritation persists.

IF INHALED: Remove victim to fresh air and apply artificial respiration if needed. Get medical attention.

NOTE TO PHYSICIAN: Malathion upon exposure may cause cholinesterase inhibition. Atropine is
antidote. Aromatic solvent may present aspiration hazard. Gastric lavage indicated if product was
swallowed.

SEE INSIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5481-238

EPA EST. NO. 5481-CA-1

NET CONTENTS 1 GALLON

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Avoid breathing spray mist or vapors. Avoid contact with skin. Wash
thoroughly after handling and before eating or smoking. Avoid contamination of food and foodstuffs. Do
not treat areas frequented by children and do not allow children in treated areas until the spray has dried.
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. **NOTE TO PHYSICIAN:** Malathion upon
exposure may cause cholinesterase inhibition. Atropine is antidote.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates and aquatic life stages of amphibians. Do not apply
directly to water except as specified on this label. 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.

AMVAC CHEMICAL CORPORATION
4100 EAST WASHINGTON BLVD
LOS ANGELES, CALIFORNIA 90023

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For Product Uses On Ornamental Plants, Vegetable Gardens,
Greenhouses and for Mushrooms See Supplemental
Labeling for Complete Directions

SWINE: For Lice mix 1/2 ounces in 5 gallons of water. Apply with a power sprayer as a complete spray
to animals, pens, and litter. One treatment may be sufficient. Repeat only as needed. Do not contaminate
feed, food, food containers nor watering troughs. Treated animals should be kept out of the sun and
weather for a few hours after treatment.

CONTROL OF STORED GRAIN INSECTS

CONTROLS: Cornal Leaf Beetle, Confused Flour Beetle, Flat Grain Beetle, Granary Weevil, Indian Meal
Moth, Lesser Grain Beetle, Red Flour Beetle, Rice Weevil, Rusty Grain Beetle, Sawtoothed Grain Beetles,
and Cadelle.

PROTECTION OF STORED GRAIN AND MOISTURE: For Wheat, Oats, Rice, Corn, Rye, Barley, and
Grain Sorghum. Mix 1 pint in 2 to 5 gallons of water to spray each 1,000 bushels of grain as it is being
loaded or turned into final storage. This is best done by mounting the sprayer nozzle over a conveyor belt
and adjusting the flow to the movement of the grain.

PROTECTION OF FIELD OR GARDEN SEEDS: Mix 1/2 pint in 1 to 2 1/2 gals of water to spray treat 500
bushels of seed as it is being turned into final storage.

SURFACE TREATMENT FOR INDIAN MEAL MOTH LARVAE: Mix 1/2 pint in 1 to 2 gallons of water to spray
treat each 1,000 sq. ft. of grain surface after the bin is filled. Repeat within 2 weeks if needed.

EMPTY BINS: Thoroughly clean inside and out by sweeping up old grain and removing refuse and
debris. Mix 1 pint in 3 gallons of water and spray treat walls, ceilings, floors, augers and machinery by
forcing spray into cracks and crevices where insects may hide. Also apply to truck beds, boxcars, and any
other mobile unit used for the movement of grain. Spray to point of run-off.

PEANUT STORAGE - EMPTY BINS: For control of listed insects in Empty Storage Bins 1 to 2 weeks prior
to filling clean inside an out sweeping up old trash and refuse. Mix 1 pint in 2 1/2 gallon of and thoroughly
spray walls inside and out to a height of 6 to 8 feet and the surrounding ground premises out 6 to 8 feet
from the bin. Apply to point of spray run-off.

PROTECTION OF PEANUTS GOING INTO STORAGE: Mix 2 1/2 pints in 5 gallons of water to treat 15 tons
of farmers' stock peanuts as they go into storage. Apply as a coarse spray adjusted with suitable
mechanical equipment regulated to the flow of peanuts over the conveyor equipment. The nozzle should
be protected against wind and air currents to assure that the spray will be deposited on peanuts.

FRUIT INSECT CONTROL

To protect most fruit a regular spray schedule should be set at 10 to 14 day intervals after the trees have
bloomed and the small fruit has formed. For best results consult your local Agricultural Extension Service
for spray schedules and proper timing of applications for your locality.

APPLES: To control Aphids, Bud Moth, Forbush Scale, Coding Moth, Plum Curculio, Red Sanded
Leafrollers, and Spider Mites, mix 2 teaspoonfuls in 1 gallon of water. Make two or more applications for
mites and one or more for aphids spaced at 7 to 10 days intervals or as a schedule indicates for a cover
spray. Do not apply later than 3 days before harvest. This product may injure Cortland and McIntosh
varieties in summer sprays.

GRAPES: For Leafhoppers, Spider Mites, and Mealy Bugs, mix 1 teaspoon . . . 1 gallon of water. Do
not apply later than 3 days before harvest. May cause injury to foliage of certain varieties. As a test, spray
several leaves of the plant first and then observe later. If no damage results it is safe to apply.

CHERRIES: For Black Cherry Aphids and Fruit Tree Leafrollers, mix 1 teaspoonful in 1 gallon of water and
thoroughly spray trees. Do not apply later than 3 days before harvest. May injure foliage in some varieties.
Test spray, as for grapes, before application.

PEARS: To control Coding Moth, Fruit Tree Leafrollers, Pear Psylla, Plum Curculio and Red Sanded
Leafrollers, use 2 teaspoonfuls per gallon of water. Do not apply later than 1 day before harvest. May
injure some pears under certain conditions in the Northeastern States.

PEACHES: For Spider Mites, Oriental Fruit Moth and Plum Curculio, mix 2 teaspoonfuls in 1 gallon of
water. Spray when damage is first seen or anticipated. Do not apply later than 7 days before harvest.

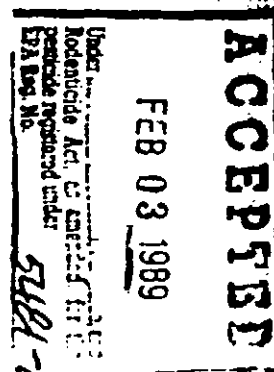
PLUMS & PRUNES: For Mealy Plum Aphid use 1 teaspoonful in 1 gallon of water. Treat when insects
first appear. Do not apply later than 3 days before harvest.

STRAWBERRIES: For control of Spider Mites, and Aphids mix 1 teaspoonful in 1 gallon of water. Treat
when insects first appear. Do not apply later than 3 days before harvest. **NOTE:** Do not apply when fruit
is in bloom and bees are present. Plan on a regular spray application to fruit at 1 to 2 weeks intervals
through the growing season to get best results.

PECANS: Follow a suggested spray schedule to control Spider Mites, Aphids, Pecan Nut Casebearer and
Pecan Psyllids. Mix 2 teaspoonfuls in 1 gallon of water and apply with a pressure sprayer. Treat when
insects are first seen or their damage is anticipated.

CITRUS INSECT CONTROL

For use on Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangerines, and Tangelos. For control of
Black Scale, California Scale, Citrus Scale, Soft Scale, and Yellow Scale mix 1 to 1 1/2 teaspoonfuls per
gallon of water. For control of Florida Red & Purple Scale and the Mediterranean Fruit Fly use 2
teaspoonfuls per gallon of water. For Thrips and Aphids use 1 1/2 teaspoonfuls per gallon of water. This
spray will also suppress Spider Mites that may be present. Apply spray to give thorough coverage of fruit
and the upper and lower sides of leaves and buds when insects are present or their damage is anticipated.
Do not apply when bees are in bloom or within 7 days of harvest.



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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store product in its original labeled container in a cool, dry, locked place out of reach of children. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** GLASS- Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved State and local procedures. METAL- Triple rinse (or equivalent). Then offer for recycling or reconditioning, or purchase and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **HOUSEHOLD:** Do not reuse empty container. Wrap in several layers of newspaper and discard in trash.

NOTICE: This product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes the risk of any such use.

IMPORTANT: READ BEFORE APPLYING THIS FOR HOUSEHOLD INSECT CONTROL: The solvent in this product may stain certain fabric, plastic, rubber and asphalt materials such as floor, carpet, and floor coverings. Avoid treating them or treat a very small inconspicuous area first to see if the material is affected by the spray. If unaffected treat them sparingly and clean thoroughly after the insecticide has dried. Otherwise do not treat. 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.

HOUSEHOLD INSECTS INSIDE DWELLINGS

INSECTS	AMOUNT OF CONCENTRATE PER QUART OF WATER
PLEASE: Contact Spray (See Below for How To Use)	1 teaspoonful / Qt.
Residual Spray	3 teaspoonfuls / Qt.
On Dogs & Cats	1 1/2 teaspoonfuls / Qt.
Animal Quarters	3 teaspoonfuls / Qt.
LICE & BROWN DOG TICKS:	
Residual Spray	3 teaspoonfuls / Qt.
ANTS, CLOVER MITES, CRICKETS, EARWIGS, PANTRY PESTS (Barbed Grain Beetles, Rice Weevils, Cornweevils, Indian Meal Moth larvae) ROACHES, SCORPIONS, SILVERFISH AND SPIDERS.	
(See Below for How To Use)	4 teaspoonfuls / Qt.

At mixing the spray apply as a coarse wet mist. Thoroughly clean, sweep and vacuum all areas before the treatment and also after the area has been ventilated and the spray has dried.

HOW TO APPLY: For Fleas, Lice and Brown Dog Ticks thoroughly treat areas where insects may enter or congregate such as door sills, window frames, baseboards, closets, storage cabinets, openings around water pipes, in the home or other buildings. Treat pet sleeping quarters and adjacent areas of floor and carpeting (see important notice). Replace quarters with fresh animal bedding after treatment. For Bedbugs, mix 3 teaspoonfuls in 1 quart of Diobase Keroline. Apply lightly to mattress surfaces in sufficient quantities to mist the fabric, the bed, and framework making sure to wet all possible insect-hiding places. Repeat applications as needed for insect control.

PEST CONTROL IN AND AROUND HOMES, DAIRIES, & FOOD PROCESSING PLANTS

For control of insects as listed in the chart mix as indicated and apply to window frames, baseboards, under sinks, drainboards, stoves, cracks and crevices and other areas where insects may breed and hide. Repeat as needed for control ONLY AS A CRACK AND CREVICE TREATMENT. Do not contaminate milk, milking equipment or utensils. Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or grown used. Do not use in eating areas while food is exposed.

FOR FLEAS ON DOGS AND CATS

Mix as indicated in the chart and thoroughly wet the animal with a hand sprayer or by sponge bathing. Animals that run outside may need to be retreated in 2 to 3 weeks. Examine for Fleas before re-bathing. Do not treat animals under one month of age. Wear rubber gloves to protect against contact with spray mix when treating animals. **IN ANIMAL QUARTERS:** Mix for a "residual spray" and treat kennels, pens, runs, and other places for Fleas and Brown Dog Ticks. Apply 1 quart of ready to use spray to cover approximately 250 sq. ft. of surface. Treat runways, soil and grass thoroughly. Wash and replace soiled bedding.

LIVESTOCK PEST CONTROL

DEEP CATTLE, GOATS, AND NON-LACTATING DAIRY ANIMALS: For control of Lice, Ticks, and Fleas mix 6 1/2 ounces in 5 gallons of water and with the use of a power sprayer apply thoroughly to animals with enough pressure to part the hair. **NOTE:** Do not treat during lactation or within 2 weeks of freshening. Repeat treatment if needed at two week intervals.

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FOR HOUSEHOLD INSECTS - FLEAS ON DOGS AND CATS -
ORNAMENTAL PEST CONTROL - FRUIT INSECT CONTROL -
VEGETABLE GARDENS - LIVESTOCK PEST CONTROL - STORED
GRAINS - CITRUS INSECT CONTROL - PEANUTS IN STORAGE -
FLOWER GARDENS - GREENHOUSE VEGETABLES - MUSHROOMS

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NET CONTENTS 1 GALLON

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AMVAC CHEMICAL CORPORATION

4100 EAST WASHINGTON BLVD
LOS ANGELES, CALIFORNIA 90023

HOW TO USE: Mix the proper amount in a Hose-End Sprayer designed for use on shrubs, or a hand pressure or pump sprayer. Thoroughly spray all portions of the plant, including the undersides of leaves, stems, and buds. Repeat as needed for control.

HOW TO MIX: For all insects other than Pine Needle or Wax Scale use 2 tsp/gal of water. For Pine Needle and Wax Scale use 4 tsp/gal. of water. Treat when insects are first seen and/or their damage is first noticed. Repeat as needed for control.

Aphids	Potato Leafhopper	Florida Scale*
Bagworms	Rose Leafhopper	Juniper Scale*
Black Leaf Miner	Scale Insects:	Black Scale Crawlers
Brownish Leaf Miner	Oyster Shell Scale*	Soft Brown Scale
European Pine Shoot Moth	Euonymus Scale	Monterey Pine Scale
Four-lined Leaf Bug	Scaly Scale	Pine Needle Scale
Japanese Beetle Adult	Azalea Scale	Wax Scale**
Lace Bugs	Magnolia Scale	Spider Mites,
Mealybugs	Pine Leaf Scale	Tarnished Plant Bug
Oak Kermes*	Fletcher Scale*	Tent Caterpillar
		Thrips (exposed stages)

*Apply when Scale Crawlers have settled on the foliage. **Apply in spring when crawlers are active. Repeat in 1 or 2 full coverage application at 10 day intervals.

VEGETABLE GARDEN INSECT CONTROL

HOW TO SPRAY: Mix the proper amount in a Hose-End Garden Type Sprayer or a hand held Garden Pressure Sprayer. Thoroughly mix and apply to all portions of the plant, undersides of leaves, stems, buds, and developing fruit. Do not spray blooms.

WHEN TO USE: Treat in the spring and/or when insects are first seen or their damage is noticed. Do not spray later than the "days" as shown before harvest. Repeat oftentimes as needed. Do not apply to wet vine crops.

HOW TO MIX: Mix 2 teaspoonfuls per gallon of water.

Beans - Aphids, Spider Mites, Cucumber Beetles, Leafhoppers	1 day *
Celery - Aphids, Spider Mites	7 days
Cucumbers, Squash, Melons - Aphids, Spider Mites,	
Cucumber Beetles, Leafhoppers	1 day
Cabbage, Broccoli, Kale - Aphids, Imported Cabbage Worm,	
Mustard, Turnips, Head Cabbage Looper, Leafhoppers	7 days
Lettuce	
Eggplant - Aphids, Spider Mites	3 days
Onions - Exposed Thrips	3 days
Peppers - Aphids	3 days
Potatoes - Aphids, Leafhoppers, Mealy Bugs	0 days
Radishes - Aphids	7 days
Tomatoes - Aphids, Spider Mites	1 day

FOR USE IN THE GREENHOUSE

The above listed plants may be treated for the listed insects when grown in a greenhouse. Observe proper ventilation procedures and treat plants in early morning during cool temperatures. Thoroughly treat all portions of the plant. Observe the pre-harvest spray limitation "days" as listed. Certain vegetable may be injured if sprayed when the humidity and temperature is very high. "Test spray" a leaf or two and observe later before applying to entire crop. Other-wise treat only when greenhouse temperatures are moderate as 70 to 75 degrees F.

MUSHROOM HOUSES

For control of Mites, Phorid and Sclerotinia Flies, mix 2 tsp in 3 gallon of water and apply to 1,000 sq. ft. of mushroom beds. Make a thorough application as soon after harvest as possible. Repeat applications as necessary, usually twice per week until insects are under control. Do not apply within 1 day of mushroom harvest.

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