

Reg # 49074-5

PM - 16

10/18/87

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MALATHION "EC-5"

ACTIVE INGREDIENTS:
Malathion (Cyanobenzoyl phosphorodithioate of diethyl mercaptosuccinate) **55.9**
INERT INGREDIENTS: **44.1**
TOTAL **100.0**
E.P.A. Reg. No.: 49074-5
NET CONTENTS
* Contains Xylene Base Solvent
LOT NO. 49074

**KEEP OUT OF REACH OF CHILDREN
CAUTION**
STATEMENT OF PRACTICE/TREATMENT
If Swallowed — Call a physician or Poison Control Center immediately. Do not induce vomiting if material was taken internally. DO NOT
INDUCE vomiting unless after treatment is not available. Vomiting may be induced if vomiting is clear. Do not induce vomiting or give anything by
mouth to an unconscious person. If Inhaled — Remove victim to fresh air. Give oxygen if available. If Irritated — Rinse with plenty of water.
If In Eyes — Flush with plenty of water.

CAUTION FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**HAZARD STATEMENTS
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**
May be fatal if swallowed. May be absorbed through skin. Do not get in eyes, on skin or on clothing. Wash thoroughly after
handling. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans, or household pets. Do not permit
children or pets to go into the sprayed area until spray has completely dried.
ENVIRONMENTAL HAZARDS
The 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 bays). Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water
when cleaning or 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.
Use only with adequate ventilation. After using the product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact
with treated surface until sprays have dried.
PHYSICAL OR CHEMICAL HAZARDS
Do not use, pour, spill, or store near heat or open flame.

MICHLIN DIAZO PRODUCTS CORPORATION

DEARBORN, MICH. 48126

Directions for use (continued)

Plant	Rate Per 100 Square Feet	Pre-treat Before App.
Apple	1-2 gal.	3
Peach	1 gal.	3
Prunus	1 1/2 gal.	3
Almond	1 1/2 gal.	3

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Apple	1-2 gal.	3
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Prunus	1 1/2 gal.	3
Almond	1 1/2 gal.	3

*This product through air type of carburetor system.
Apply surface spray using 1 1/2
gallons of water and apply at the rate of 2 gallons per 1000 square
feet. Apply first treatment as soon as birds are banded and banded, but
not later than October. Apply the second surface
spray later, followed by treatments at 2 month intervals. Use
power sprayer equipped with agitator and nozzle capable of
delivering coarse spray. Repeat surface application 60 days later if
mites prevail. Otherwise delay further treatment until late

Directions for use (continued)

RESIDUAL SPRAY—SOLICARS FOR KIBBING AND TRANSPORTING BAGGED FLOUR AND PACKAGED CEREALS:

to exposed stages of confused flour beetle, rice weevil,
saw-toothed grain beetle, flat grain beetle, red flour beetle,
lesser grain borer, Indian meal moth and rice pest
beetles into which bagged flour and packaged cereals are
transported. Apply as follows:
and floor to the extent of run-off with either 1 gallon in 25
gallons of water or 1 gallon of the product in 10 gallons of deionized
water. The deionized water solution should be made up of 4
oz of other xylene-type solvent plus 1 part Xylene Solvent
and 1 part hydrocarbon-type solvent.

WAREHOUSE SPRAY—BEFORE STORING PEANUTS

so thorough of stain and remains of old peanuts 1-2 weeks
before storage. Then, thoroughly spray the interior of the
bin especially cracks and protected places. Treat outside
of bin with sufficient water to make 2 1/2 gallons of spray, or 1
gallon of water. Apply as a coarse spray at the rate of 2
gallons per 1000 square feet of surface or to run-off.

STORING IN BULK: For the protection of stored peanuts

bins of red flour beetle, Indian meal moth, confused flour
beetle, flat grain beetle, rusty grain beetle, lesser grain borer,
and saw-toothed grain beetle—Mix at the rate of 2 parts in 5
of Xylene spray mixture at the rate of 5 gallons per 15 tons of
peanuts as they go into storage. Mix and apply spray on the
inside of storage bins which has been stored longer than 12

MECHANICAL SPRAY APPLICATOR THAT REGULATES THE RATE OF

the flow of peanuts. Adjust the operating pressure of spray
at nozzle opening to correlate the amount of spray delivery
flow of peanuts being treated. Avoid spraying with fine
spray by using low nozzle pressure. Shield the nozzle
and air currents.

INTERNAL SURFACE SPRAY: After warehouse has been fitted,

peanuts before spraying. Apply surface spray using 1 1/2
gallons of water and apply at the rate of 2 gallons per 1000 square
feet. Apply first treatment as soon as bins are filled and banded, but
not later than October. Apply the second surface
spray later, followed by treatments at 2 month intervals. Use
power sprayer equipped with agitator and nozzle capable of
delivering coarse spray. Repeat surface application 60 days later if
mites prevail. Otherwise delay further treatment until late

PLANT INSECT CONTROL

Plant	Rate Per 100 Square Feet	Pre-treat Before App.
Apple	1-2 gal.	3
Peach	1 gal.	3
Prunus	1 1/2 gal.	3
Almond	1 1/2 gal.	3

Not Reviewed. Registrant claims to be in accordance with
Reregistration of Pesticide Product Guidance for Phase 2
Response, Page 2.12, Active to Inert Change in Status.

Directions for use (continued)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store in cool, dry area. If container is damaged,
positioning the container or by patching or otherwise repairs
to avoid contact with pesticides and wear protective gear. C
liquids water protective equipment as required to prevent car
or its vapors. Cover the spilled area with generous amount
such as clay, absorbent earth, sand or sawdust. Sweep I
barrel onto a shovel and put the sweepings into a heavy
household bleach to contaminate area. Scrub thorough
brush. Let stand for 15 minutes. Wash area thoroughly with
container into a glass drum or glass container. Mark the c
product, ingredient statement, precautionary statements, a
fact label for replacement label. Do not store, use, pour, or spill re
PESTICIDE DISPOSAL: Wastes resulting from the use of this
product on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then
reconditioning, or puncture and dispose of in a sanitary lan
cedures approved by state and local authorities.

Dilute in sufficient water for complete coverage unless other
For ground application use from 10 to 20 gallons of water per acre
with 3 to 10 gallons of water per acre.

For fruit applications, thorough, full coverage applications show
HOUSEHOLD PESTS: To control roaches, ants, spiders, silverfish
earrings, and about homes, dairy and food processing plants, use
20 parts water; 5%—1 to 11 parts water). Apply as a coarse spray
frames, woodwork, under sinks, doorways, floors, and other
tanks; care not to contaminate food. Use a minimum of 1 1/2 gallons
per 1,000 square feet on painted (2 gallons on unpainted) a

DO NOT ALLOW CHILDREN IN TREATED AREAS UNTIL SURFACE IS DRY.
DO NOT ALLOW ANY CARPET CONTACT.

MEAT AND FOOD PROCESSING PLANTS: For control of flies in
household areas, around yards, homes, meat and food
units in 1 1/2 quarts of water (1 cup in 2 1/2 gal 1 For best spray add 1
unacidulated molasses to 1 1/2 quarts of water (1 cup in 2 1/2 gal 1 g
per 1,000 square feet on painted (2 gallons on unpainted) a

Do not apply in edible products areas of meat and food processing
and caves under one month of age from building being treated
FOOD HANDLING ESTABLISHMENTS: Place other than private
food is held processed, prepared or served.

FOOD AREAS: Application limited to cracks and crevices treatin
includes areas for receiving, storage, packing (canning, labeling,
spine waste storage and enclosed processing systems (note: dis
ing areas where food is exposed and facility is an operation also wou
Mix 1 quart 5 LB MALATHION SPRAY with 6 1/2 gallons of water a
small amount directly into cracks and crevices using a vacuum
stream of water in joints between elements of construct
floors, openings leading to voids and hollow spaces in walls, stu
cockroaches, silverfish, crickets, ants and spiders' nests. Also in th
toothed grain beetle, flour beetle, rice weevil, cigarette beetle, l

When mixed with water, DO NOT use the product in confined, r
switch boxes. When mixed with oil apply also around conduits,
switch boxes. Prior to application (with oil) de-energize electrical
allow time for oil to evaporate before starting motors or plating.
Care should be taken to avoid depositing the product onto expos
material into the air. Avoid contamination of food or feed proc.

**APPLICATIONS OF THIS PRODUCT IN THE FOOD AP
ESTABLISHMENTS OTHER THAN AS A CRACK AND CREV
PERMITTED**

DO NOT ALLOW CHILDREN IN TREATED AREAS UNTIL SURFACE IS DRY.
NON-FOOD AREAS: Includes garbage rooms, restrooms, bac
restrooms, offices, locker rooms, machine rooms, boiler room
storage (after cleaning or bombing). Make general application o
baseboards areas, around water areas, surfaces behind enc
panels and similar areas where insects hide or through which the

Directions for use (continued)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in cool, dry area. If container is damaged, stop any leaks by re-securing the container or by patching or otherwise restoring the same. Take care to avoid contact with pesticide and wear protective gear. On cleanup of spilled liquids, wear protective equipment as required to prevent contact with the product or its vapors. Cover the spilled areas with generous amounts of absorbent material, such as clay, calcium-based earth, sand or sawdust. Sweep the contaminated absorbent onto a shovel and put the sweepings into a salvage drum. Apply liquid household bleach to contaminated area. Scrub thoroughly using long handled brush. Let stand for 15 minutes. Wash area thoroughly with water. Place salvage container into a similar drum or glass container. Mark the container with name of product, ingredient statement, precautionary statements, and agent word. Contact us for replacement label. Do not store, use, pour, or spill near heat or open flame.

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

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

Dissolve in sufficient water for complete coverage unless otherwise specified.

For ground application use from 10 to 20 gallons of water per acre. For aerial application dilute with 3 to 10 gallons of water per acre.

For fruit applications, thorough, full coverage applications should be made.

HOUSEHOLD PESTS: To control Roaches, Ants, Spiders, Silverfish, Crickets, Cover Mites, and Earwigs, in and about homes, dairy and food processing plants, use 2% to 5% solution (2% - 1 to 20 parts water, 5% - 1 to 11 parts water). Apply as a coarse spray or by paint brush to window frames, baseboards, under sinks, drainboards, stoves, and other areas frequented by insects, taking care not to contaminate food or utensils. Application should be repeated as necessary.

Do not allow children in treated areas until surface is dry.

DO NOT ALLOW ANY CARPET CONTACT, MAY STAIN.

BEEHIVE AND FOOD PROCESSING PLANTS: For control of flies in and around buildings which house domestic animals, around yards, homes, meat and food processing plants—(Dilute 1 quart in 1 1/2 quarts of water (1 cup in 2 1/2 gal.) For best spray add 1 quart of sugar, corn syrup or unsulfurized molasses, or 20 pounds of sugar to 100 gallons of spray mixture, or add 1 pint of molasses or corn syrup or 1 pound of sugar to 5 gallons of spray mixture. Apply sufficient spray to thoroughly wet surfaces on which flies are seen to congregate, such as walls, ceilings and structures in barns, manure piles, garbage cans, traps etc. Repeat application as necessary. NOTE: Do not use these sprays in buildings where milk is processed or stored or in dairies. Do not use on animals. Remove animals and poultry from buildings before spraying. For best results remove manure, waste material and other fly-breeding areas.

OUTDOORS—Houseflies and Small Flying Insects: Use 2 1/2-5% tag, spray or insecticide spray. Dilute 1 to 20 parts with water, based on insect oil, for 2% spray (1 to 11 for 5%). Repeat applications as necessary. Avoid spraying of leaves spray to ornamental plants. Treat shrubbery and vegetation where mosquitoes may rest. Shrubbery and vegetation around stagnant pools, marshy areas may be treated. Application of this product to any body of water is prohibited.

Prevention of Stored Grains—For the protection of stored wheat, oats, rice, corn, rye barley, grain sorghum, and field or garden seeds, against confused flour beetles, rice weevil, granary weevil, sawtoothed grain beetle, flat grain beetle, red flour beetle, rusty grain beetle, lesser grain borer, and Indian meal moth, apply 1 pint in 2 to 5 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage. Field and Garden Seeds can be protected against the above grain pests with a dosage of 1/4 pint in 1 to 2 1/2 gallons of water per 500 bushels of seed.

Malathion may be used under the requirements of the Quarantine Bees and Quarantine, where water or insect oil emulsions are indicated as prescribed by current quarantine instructions.

To protect stored grains from attacks by Indian meal moth, apply to the surface of clean or uninfested grain at the rate of 1/4 pint in 1 to 2 gallons of water per 1000 square feet of grain surfaces. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.

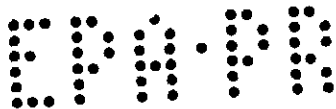
Residual Spray—For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and truck holds before loading grain, apply 1 gallon per 25 gallons of water, mixing thorough application. Before spraying spray, clean elevators, boxcars, etc., thoroughly. Remove and burn all sweepings and debris.

In these holds, wear respirator to prevent breathing of fumes or dust into the throat and lungs. Wear protective clothing to protect as much of the skin as possible from exposure. Wash hands and face after using.

APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

DO NOT ALLOW CHILDREN IN TREATED AREAS UNTIL SURFACES ARE DRY.

NON-FOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewers, outside and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, motor clubs and storage (after cleaning or washing). Make general application using a 2% to 5% rate and apply to baseboard areas, around water pipes, surfaces beneath and beneath sinks, lockers, tables, poles and similar areas where insects hide through which they may enter.



Directions for use (continued)

ANIMAL INSECT CONTROL

HOGS: Louse and Lice control: Mix 4 tablespoons in one gallon (1 qt. to 2 1/2 gallons) water and spray liberally. Complete coverage spray to animals, ears and hairs. For mites spray all animals in herd. Cover all body surfaces, including crevices of ears. After treatment keep hogs out of sun and wind for four hours. One treatment will usually control; however, extreme cases of mites may need retreatment in 10 days. For lice retreat as necessary. **BEEF CATTLE:** To control lice dilute 1 quart in 25 gallons of water, for tick control—1 to 2 quarts per 25 gallons and for horn fly control 1 to 1 1/2 quarts per 25 gallons of water. Apply complete coverage spray. For lice retreat application only as needed. For ticks and horn fly control, repeat application at 2-week intervals if needed. Do not treat calves under one month of age. Do not apply to dairy animals.

DOGS AND CATS: To control fleas mix 2 tablespoons in one gallon of water, wet animals thoroughly using a hand sprayer. Repeat applications if necessary, not more often than once every 2 or 3 weeks. Do not treat animals under 1 month of age.

ANIMAL QUARTERS: For control of flies in barns, pens, yards, kennels and under houses, remove manure or straw. Apply spray containing 10 tablespoons per gallon of water at rate of 1 gallon to 1,000 sq. ft. Use garden sprayer.

POULTRY (Direct Application): To control Northern Fowl Mite and Poultry Lice use 2 tablespoons per 1 gallon water per 100-150 birds. (Prevent Treatment).

To control above plus Chicken Red Mite and Fleas use 4 tablespoons in 1 gallon of water. Apply liberally to floor, walls, ceilings, roosts, nests and adjacent areas. Force spray into cracks and crevices. On all poultry treatments, repeat as necessary.

FLIES

For the control of flies in and around animal buildings and yards, and around the outside of dwellings, use 2 1/2 gallons in 100 gallons of water, or 1 pint in 5 gallons of water. To make baited sprays, add 2 gallons of corn syrup or unsulfurized molasses, or 20 pounds of sugar to 100 gallons of spray mixture, or add 1 pint of molasses or corn syrup or 1 pound of sugar to 5 gallons of spray mixture. Apply sufficient spray to thoroughly wet surfaces on which flies are seen to congregate, such as walls, ceilings and structures in barns, manure piles, garbage cans, traps etc. Repeat application as necessary. NOTE: Do not use these sprays in buildings where milk is processed or stored or in dairies. Do not use on animals. Remove animals and poultry from buildings before spraying. For best results remove manure, waste material and other fly-breeding areas.

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In these holds, wear respirator to prevent breathing of fumes or dust into the throat and lungs. Wear protective clothing to protect as much of the skin as possible from exposure. Wash hands and face after using.