

MALATHION - USE IN PLANTS PROCESSING DRY MILK

For the prevention of spread and the reduction of infestation of black carpet beetles and Trogoderma species, in plants processing dry milk.

Mix 1 pt. of MALATHION CONCENTRATE in 2 1/2 gals. of water.

Clean premises thoroughly before applying and maintain good sanitation at all times.

Use spray equipment and nozzles that will produce a coarse spray.

Application must be made only by an experienced or trained person.

Apply as a residual spray to all sections of the plant and warehouses where insects hide or crawl such as cracks, corners, edges of floors, lower parts of walls, floors under storage platforms and underneath and behind protected places.

Avoid contamination of milk, dry milk, equipment, utensils, work surfaces, containers and liners.

Repeat application as necessary.

For the protection of stored grains, such as wheat, oats, rice, corn, soy, barley, grain sorghum and flax or grain sorghum, against stored grain pests, apply MALATHION CONCENTRATE as follows:

RESIDUAL SPRAY - BEFORE STORING GRAINS: For residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ship holds before loading grain, apply 1 gallon of MALATHION CONCENTRATE per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris.

GRAINS GOING INTO STORAGE: Apply 1 pint of MALATHION CONCENTRATE 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 CONCENTRATE 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 - BOX CARS FOR LOADING AND TRANSPORTING BAGGED CEREALS: For the control of confused flour beetle, rice weevil, sawtoothed grain beetle, Indian meal moth, and other stored grain pests, apply MALATHION CONCENTRATE as follows:

1. Clean the box car thoroughly, then remove and burn all sweepings and debris.

2. Spray walls and floors to the point of run-off with either 1 gallon of MALATHION CONCENTRATE in 15 gallons of water, or 1 gallon MALATHION CONCENTRATE in 19 gallons of deodorized kerosene. (The deodorized kerosene solution should be made up of 4 parts kerosene type solvent plus one part aromatic hydrocarbon type solvent).

3. Let the sprayed box car stand empty with the doors open until the spray has thoroughly dried.

4. Line the walls and floors of the box car with kraft paper before loading.

FIELD AND GARDEN SEEDS: Field and garden seeds can be protected against the above grain pests with a dosage of 1/2 pint of MALATHION CONCENTRATE in 1-2 1/2 gallons of water per 500 bushels of seed.

Malathion may be used under the requirements of the Khapra beetle quarantine, where water or diesel oil emulsions are indicated, as prescribed by the current quarantine instructions.

PEANUTS: For protection of stored peanuts against infestations of red flour beetle, Indian meal moth, corn ear flour beetle, rice weevil, and other stored grain pests, apply MALATHION CONCENTRATE as follows:

RESIDUAL WAREHOUSE SPRAY - BEFORE STORING PEANUTS: Clean warehouse thoroughly of trash and remains of old peanuts 1-2 weeks before new peanut crop is stored. Then, thoroughly spray the interior of the empty warehouse, especially cracks and protected places. Treat outside walls to a height of 6-8 feet and the ground to a distance of 6 feet from the warehouse.

Use 1 pint of MALATHION CONCENTRATE in sufficient water to make 2 1/2 gallons of spray or 1 gallon with 19 gallons of water. Apply as a coarse spray at the rate of 2 gallons per 1,000 square feet of surface or to run-off.

BULK SPRAY TREATMENT - PEANUTS GOING INTO STORAGE: Use MALATHION CONCENTRATE at the rate of 2 1/2 pints in 5 gallons of water for each 15 tons of farmers' stock peanuts as they go into storage.

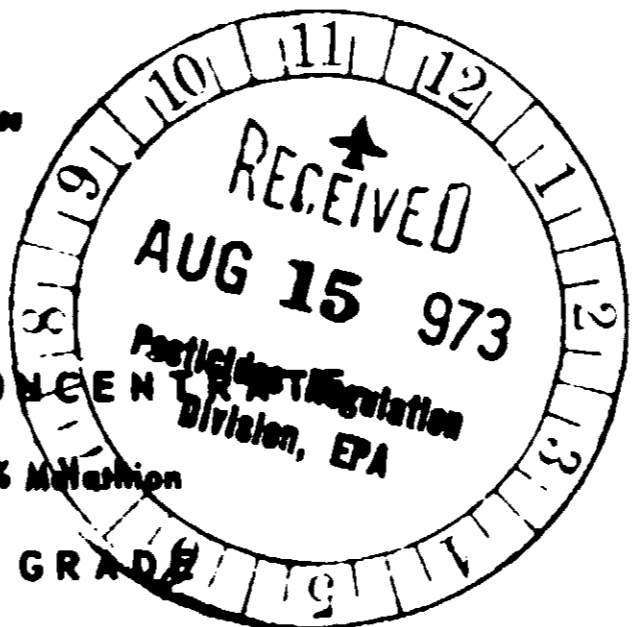
Use good spray equipment. Apply coarse spray uniformly. Preferably, use a suitable mechanical spray applicator that regulates the rate of application to the flow of peanuts. Otherwise, adjust the operating pressure of spray pump and size of nozzle opening to correlate the amount of spray delivery with the rate of flow of peanuts being treated. Avoid spraying with a fine mist that drifts away, but using low nozzle pressure. Shield the nozzle against wind and



MALATHION CONCENTRATE

Containing 57% Malathion

PREMIUM GRADE



CAUTION

KEEP OUT OF REACH OF CHILDREN

(See additional cautions on side panels)

CAUTION

Remove animals and poultry from buildings before treatment. Harmful if swallowed. Avoid contact with skin; wash thoroughly after using. Avoid contamination of feed or food stuffs. Keep out of reach of children and domestic animals. Do not use in milk room or dwelling. Do not apply on animals or poultry. Avoid inhalation of spray mist. Do not use in edible products areas of food processing plants or wineries.

ACTIVE INGREDIENTS

- Malathion (0,0-dimethyl dithiophosphate of diethyl mercaptosuccinate*) 57%
- Methylated Naphthylated Naphthalenes 32%

INERT INGREDIENTS

*Premium Grade Malathion

EPA Reg. No. 2270-122

THE HUGG COMPANY, Inc.
Sanitation Consultants to the Food Industry
MANUFACTURERS OF
EXCELVIDE INSECTICIDES, RODENTICIDES AND EQUIPMENT
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air currents. The Deluxe Residual Tank Type Sprayer is ideal for this use.

SUPPLEMENTAL SURFACE SPRAY: After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1-1/2 lbs. of premium grade malathion 25% 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 sprayer 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.

NOTE: Both Emulsifiable Concentrate and Wettable Powder are to be used in the full program.

Tolerance 3 ppm in or on peanuts (determined on the nuts after shell is removed and discarded).

DROSOPHILA FLIES AND DROSOPHILA BEETLES
in and around Cull Fruit and Vegetable Dumps.

MALATHION CONCENTRATE
For control of Drosophila flies and dried fruit beetles on and around cull fruit and vegetable dumps, mix 1 1/2 gallons of MALATHION CONCENTRATE in 100 gallons of water and apply as a drench using 8-10 gallons of spray per 100 square feet. For best results, dumps should not be over 18 inches deep.
DO NOT TREAT FRUIT AND VEGETABLES.

DROSOPHILA FLIES
in and around Wineries and Processing Plants.

MALATHION CONCENTRATE
For control of Drosophila flies in and around wineries and processing plants, paint all doors and window screens with a solution containing 3 1/2 ounces of MALATHION CONCENTRATE in 1 quart of water.
AVOID CONTAMINATION OF WINE, FOOD, UTENSILS, EQUIPMENT AND WATER.

DIRECTIONS FOR FLY CONTROL STRAIGHT MALATHION SPRAYS

Amount Spray	Amount Emulsifiable Liquid
1 gal.	5 lbs.
2 1/2 gal.	1 cup
1 1/2 gal.	1 qt.
100 gals.	2 gals.

BAIT SPRAYS (WITH SUGAR) ADD

Sugar	or	Molasses or Corn Syrup
7 lbs.		7 lbs.
1 cup		1 cup
2 1/2 lbs.		1 qt.
20 lbs.		2 gals.

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 unpainted surfaces where flies alight or congregate. Areas of application would be in and around buildings (barns-stables) which house domestic animals, around outside areas of buildings, food processing plants, and meat processing establishments. Use 3 gals. of Malathion emulsifiable liquid with 40 lbs. of sugar per 100 gallons if fly population is severe. In most cases, adding molasses or sugar to the spray prolongs the insecticidal activity of malathion and serves as a fly attractant. Avoid contamination of feed and food products. Do not leave within reach of children. Do not use in areas where edible products are handled. Remove dairy animals and calves under one month of age from building before treating. Do not apply malathion to freshly whitewashed surfaces. Wait 14 days before using malathion again.

FLOOR TREATMENT BAIT SPRAYS: Use 5 ounces of MALATHION CONCENTRATE with one cup corn syrup or sugar and 2 gallons of water. As a spot treatment this mixture can also be applied to windows, stanchions, support beams, and doors.

FLY MAGGOTS IN MANURE AND LOAFING SHEDS: Use 2 gallons of MALATHION CONCENTRATE in 2 gallons unsulfurized molasses or corn syrup or 20 pounds of sugar per 100 gallons of water. Apply as a drench spray over surface of manure or poultry droppings. In loafing sheds spray dry bedding within 18 inches of walls and around upright braces.

In conjunction with malathion treatment in and around dairy barns and other agriculture premises, fly breeding sites such as manure and other material should be eliminated.

NOTICE: Seller warrants that 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, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

ACCEPTED WITH COMMENTS

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 CONCENTRATE as follows:

RESIDUAL SPRAY - BEFORE STORING GRAINS: For residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ship holds before loading grain, apply 1 gallon of MALATHION CONCENTRATE per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris.

GRAINS GOING INTO STORAGE: Apply 1 pint of MALATHION CONCENTRATE 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 CONCENTRATE 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 - BOX CARS FOR LOADING AND TRANSPORTING BAGGED CEREALS: For the control of confused flour beetle, rice weevil, granary weevil, saw-toothed grain beetle, lesser grain borer, flat grain beetle, red flour beetle, rusty grain beetles, Indian meal moth and mite pest infesting empty box cars into which bagged flour and packaged cereals are to be loaded and transported, apply MALATHION CONCENTRATE as follows:

1. Clean the box car thoroughly, then remove and burn all sweepings and debris.
2. Spray walls and floors to the point of run-off with either 1 gallon of MALATHION CONCENTRATE in 15 gallons of water, or 1 gallon MALATHION CONCENTRATE in 19 gallons of deodorized kerosene. (The deodorized kerosene solution should be made up of 4 parts kerosene type solvent plus one part aromatic hydrocarbon type solvent).
3. Let the sprayed box car stand empty with the doors open until the spray has thoroughly dried.
4. Line the walls and floors of the box car with kraft paper before loading.

FIELD AND GARDEN SEEDS: Field and garden seeds can be protected against the above grain pests with a dosage of 1/2 pint of MALATHION CONCENTRATE in 1-2 1/2 gallons of water per 500 bushels of seed.

Malathion may be used under the requirements of the Khapra beetle quarantine, where water or diesel oil emulsions are indicated, as prescribed by the current quarantine instructions.

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 as follows:

RESIDUAL WAREHOUSE SPRAY - BEFORE STORING PEANUTS: Clean warehouse thoroughly of trash and remains of old peanuts 1-2 weeks before new peanut crop is stored. Then, thoroughly spray the interior of the empty warehouse, especially cracks and protected places. Treat outside walls to a height of 6-8 feet and the ground to a distance of 6 feet from the warehouse.

Use 1 pint of MALATHION CONCENTRATE in sufficient water to make 2 1/2 gallons of spray or, 1 gallon with 19 gallons of water. Apply as a coarse spray at the rate of 2 gallons per 1,000 square feet of surface or to run-off.

BULK SPRAY TREATMENT - PEANUTS GOING INTO STORAGE: Use MALATHION CONCENTRATE at the rate of 2 1/2 pints in 5 gallons of water for each 15 tons of farmers' stock peanuts as they go into storage.

Use good spray equipment. Apply coarse spray uniformly. Preferably, use a suitable mechanical spray applicator that regulates the rate of application to the flow of peanuts. Otherwise, adjust the operating pressure of spray pump and size of nozzle opening to correlate the amount of spray delivery with the rate of flow of peanuts being treated. Avoid spraying with a fine mist that drifts away, but using low nozzle pressure. Shield the nozzle against wind and

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edible products a

ACTIVE INGRED

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INERT INGREDI

* Premium Grade 1



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air currents. The Deluxe Residual Tank Type Sprayer is ideal for this usage. **SUPPLEMENTAL SURFACE SPRAY:** After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1- $\frac{3}{4}$ lbs. of premium grade malathion 25% Wettable Powder in 2 gallons of water and apply at the rate of 2 gallons per 1000 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 sprayer 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.

NOTE - Both Emulsifiable Concentrate and Wettable Powder are to be used in the full program.

Tolerance 3 ppm in or on peanuts (determined on the nuts after shell is removed and discarded).

DROSOPHILA FLIES AND DRIED FRUIT BEETLES
on and around Cull Fruit and Vegetable Dumps.

MALATHION CONCENTRATE
For control of Drosophila flies and dried fruit beetles on and around cull fruit and vegetable dumps, mix 1 $\frac{1}{2}$ gallons of MALATHION CONCENTRATE in 100 gallons of water and apply as a drench using 8-10 gallons of spray per 100 square feet. For best results, dumps should not be over 18 inches deep.

DO NOT TREAT FRUIT AND VEGETABLES.

DROSOPHILA FLIES
In and around wineries and Processing Plants.

MALATHION CONCENTRATE
For control of Drosophila flies in and around wineries and processing plants, paint all doors and window screens with a solution containing 3 $\frac{1}{2}$ ounces of MALATHION CONCENTRATE in 1 quart of water.

AVOID CONTAMINATION OF WINE, FOOD, UTENSILS, EQUIPMENT AND WATER.

DIRECTIONS FOR FLY CONTROL STRAIGHT MALATHION SPRAYS

Amount Spray	Amount Emulsifiable Liquid
1 gal.	5 lbs.
2 $\frac{1}{2}$ gal.	1 cup
12 gals.	1 qt.
100 gals.	2 gals.

BAIT SPRAYS (WITH SUGAR) ADD

Sugar	or	Molasses or Corn Syrup
7 tbs.		7 tbs.
1 cup		1 cup
2 $\frac{1}{2}$ lbs.		1 qt.
20 lbs.		2 gals.

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 unpainted surfaces where flies alight or congregate. Areas of application would be in and around buildings (barns-stables) which house domestic animals, around outside areas of buildings, food processing plants, and meat processing establishments. Use 3 gals. of Malathion emulsifiable liquid with 40 lbs. of sugar per 100 gallons if fly population is severe. In most cases, adding molasses or sugar to the spray prolongs the insecticidal activity of malathion and serves as a fly attractant, avoid contamination of feed and food products. Do not leave within reach of children. Do not use in areas where edible products are handles. Remove dairy animals and calves under one month of age from building before treating. Do not apply malathion to freshly whitewashed surfaces. Wait 14 days before using malathion again.

FLOOR TREATMENT BAIT SPRAYS: Use 5 ounces of MALATHION CONCENTRATE with one cup corn syrup or sugar and 2 gallons of water. As a spot treatment this mixture can also be applied to windows, stanchions, support beams, and doors.

FLY MAGGOTS IN MANURE AND LOAFING SHEDS: Use 2 gallons of MALATHION CONCENTRATE in 2 gallons unsulfurized molasses or corn syrup or 20 pounds of sugar per 100 gallons of water. Apply as a drench spray over surface of manure or poultry droppings. In loafing sheds spray dry bedding within 18 inches of walls and around upright braces.

In conjunction with malathion treatment in and around dairy barns and other agriculture premises, fly breeding sites such as manure and other material should be eliminated.

NOTICE: Seller warrants that 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, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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..... 57%
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EQUIPMENT
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 every.

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ARS FOR LOADING AND TRANSPORTING BAG-
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 rbon type solvent).

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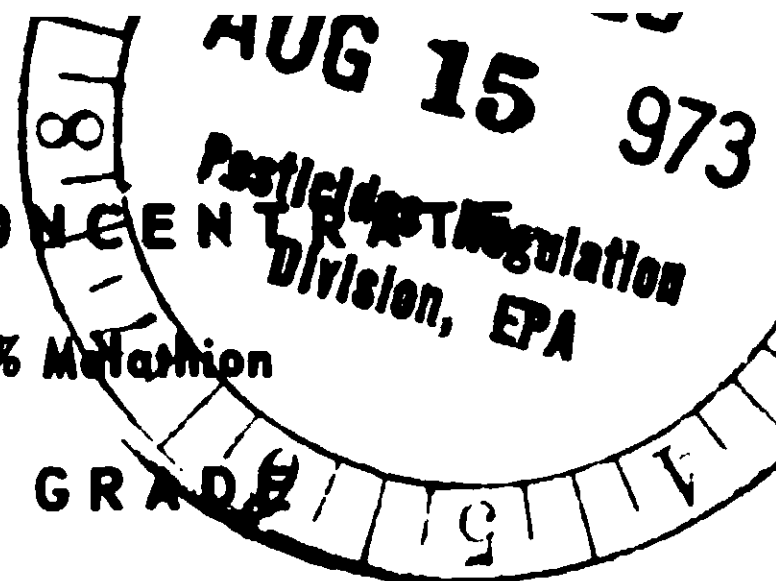
of stored peanuts against infestations of red flour
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PRAY - BEFORE STORING PEANUTS: Clean
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Apply coarse spray uniformly. Preferably, use a
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MALATHION CONCENTRATE
 Containing 57% Malathion
 PREMIUM GRADE

CAUTION

KEEP OUT OF REACH OF CHILDREN
 (See additional cautions on side panels)

CAUTION

Remove animals and poultry from buildings before treatment. Harmful if swallowed. Avoid contact with skin; wash thoroughly after using. Avoid contamination of feed or food stuffs. Keep out of reach of children and domestic animals. Do not use in milk room or dwelling. Do not apply on animals or poultry. Avoid inhalation of spray mist. Do not use in edible products areas of food processing plants or wineries.

ACTIVE INGREDIENTS

Malathion (0,0-dimethyl dithiophosphate of diethyl mercaptosuccinate* 5
 Methylated Naphthylated Naphthalenes 3

INERT INGREDIENTS 1

* Premium Grade Malathion

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