

DOUGLAS

57% MALATHION



1015-66

Emulsifiable Concentrate Premium Grade

ACTIVE INGREDIENTS:

Malathion (O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate) 57.00%

Xylene — Range Aromatic Solvents 30.30%

INERT INGREDIENTS: 12.70%

TOTAL 100.00%

*Equivalent to 5 pounds of premium grade malathion per gallon.

Formulated with CYTHON[®] Insecticide "The Premium Grade Malathion"

KEEP OUT OF REACH OF CHILDREN.

X WARNING

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

NOT FOR SALE TO OR USE BY HOMEOWNERS

**See Side Panel and Attached Booklet for
Precautionary Statements and Directions for Use.**

MANUFACTURED BY
TOWN STATE
ESTABLISHED

DOUGLAS CHEMICAL COMPANY
LIBERTY, MISSOURI 64888



CONTENTS OF THIS GALLON IS 3.785 LITERS

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57% MALATHION



ACCEPTED
MAY 28 1966
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the purpose of registration under EPA Reg. No. 1015-666

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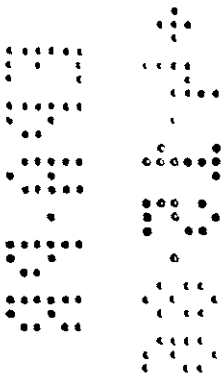
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MANUFACTURED BY:	DOUGLAS CHEMICAL COMPANY	
TOWN STATE	LIBERTY, MISSOURI 64068	
ESTABLISHMENT NO	1015 MO 1	
EPA REGISTRATION NO	1015	

NET CONTENTS: ONE (1) U.S. GALLON (3.785 LITERS)

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

WARNING

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Wash skin thoroughly after handling. Remove and wash contaminated clothing before reuse. Wear long pants, long-sleeved shirt and shoes when applying. Do not allow children or pets into treated area until spray has dried.

ENVIRONMENTAL HAZARDS

Molathion is toxic to fish. Use with care when applying in areas adjacent to any body of water. Keep out of lakes, streams and ponds. Do not apply directly to water. Do not apply when weather conditions favor drift from target area.

Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes.

MALATHION is highly toxic to bees exposed in direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop or weeds blooming in the treated area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a Physician or Poison Control Center immediately. ON SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a Physician. Wash clothing before reuse. IF IN EYES: Flush with plenty of water. Get medical attention. NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

STORAGE AND DISPOSAL

Refer to container label for complete directions for pesticide storage and disposal.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all directions carefully before using.

REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Protective clothing consists of long-sleeved shirt, long pants, gloves, hat and shoes.

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. All workers not directly involved with the application of this product must be removed from the area to be treated. All other workers must be informed of the area which is to be treated and informed not to enter the area until such time as the spray has dried without the proper protective clothing listed above in the event a worker is exposed to this product he should inform his supervisor immediately of the type of exposure in order that proper protective treatment may be given. 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 treatment.) Do not enter without appropriate protective clothing until spray has dried. In case of accidental exposure inform supervisor immediately."

DISCLAIMER

CONDITIONS OF SALE: This product is sold subject to and buyer and users are deemed to have accepted the terms contained in the CONDITIONS OF SALE AND WARRANTY, DIRECTIONS FOR USE AND PRECAUTIONARY STATEMENTS, which may be varied only by agreement in writing by a duly authorized representative of DOUGLAS CHEMICAL COMPANY.

INHERENT RISKS: The directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or

other unintended consequences may result because of such factors as presence of other materials or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of DOUGLAS CHEMICAL COMPANY, or the seller. All such risks shall be assumed by the buyer.

WARRANTY LIMITATIONS: DOUGLAS CHEMICAL COMPANY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the DIRECTIONS FOR USE, subject to the inherent risks referred to above. DOUGLAS CHEMICAL COMPANY MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY.

LIMITATION OF LIABILITY: In no case shall DOUGLAS CHEMICAL COMPANY or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. No claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 816-471-0626 Ext. 220 or 816-421-8060 Ext. 257 or 235.

DIRECTIONS FOR USE

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

VEGETABLES: Apply in a minimum of 30 gals. by ground equipment or 5 gals. by air equipment unless otherwise specified. Best results are obtained with uniform coverage.

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Asparagus	Asparagus aphid Asparagus beetle	2 pts.	Do not apply within 1 day of harvest.
	Thrips	1½-2 pts.	
Beans (Green Beans, Lima Beans, Navy Beans, Red Kidney Beans, Snap Beans, Wax Beans, Cowpeas and Blackeyed Peas)	Aphids Bean leaf beetles Blister beetles Cucumber beetles Potato leafhoppers Lygus bugs	2 pts.	Do not apply within 1 day of harvest.
	Japanese beetle Mexican bean beetle	1½-2 pts.	
	Red Spider mites	1½ pts.	
Dry Beans (California and Northwest only)	Lygus bugs	1½-2 pts. (ground) 1½ pts. (air) in 10 gallons of water	Do not apply within 1 day of harvest.
Beets (Garden and Table)	Aphids	1½-2 pts.	Do not apply within 7 days of harvest if tops are to be used as food or feed.
Broccoli	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	Do not apply within 3 days of harvest.
Brussels Sprouts	Aphids	1-2 pts.	Do not apply within 7 days of harvest.
Cabbage	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	Do not apply within 7 days of harvest. For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Diamondback moth Webworm	2 pts.	
Carrots	Aphids	1½-2 pts.	Do not apply within 7 days of harvest.
	Leafhoppers	2½ pts.	

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Cauliflower	Diamondback moth	2-4 pts.	Do not apply within 7 days of harvest.
	Aphids	1-2 pts.	
Celery, Anise	Aphids Spider mites	1½ pts.	To be applied to fresh leaves and stalks only. Do not use on crops grown for seed and oil. Do not apply within 7 days of harvest.
Collards	Aphids	1½-2 pts.	Do not apply within 7 days of harvest. For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Harlequin cabbage bug	1 pt.	
Cucumbers	Aphids Pickleworms Spider mites	1½-2 pts.	Do not apply to cucumbers unless plants are dry. Do not apply within 1 day of harvest.
	Squash vine borer	3 pts.	
	Cucumber beetle Leaf miner	2 pts.	
Dandelion, Parsley, Parsnip, Swiss Chard, Watercress	Aphids	1½-2 pts.	Do not apply within 21 days of harvesting parsley or within 7 days of harvesting dandelion, parsnip, Swiss chard or watercress.
Eggplant	Aphids Spider mites	1 pt.	Do not apply within 3 days of harvest.
	Lacebugs	3 pts.	
Endive	Aphids Spider mites	1½-2 pts.	Do not apply within 7 days of harvest.
Garlic, Shallots	Aphids Thrips	1½-2 pts.	Do not apply within 3 days of harvest.
Hops	Aphids Spider mites	1 pt.	Do not apply within 10 days of harvest.
Kale	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	Do not apply within 7 days of harvest. For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Webworm Diamondback moth	2 pts.	
Kohlrabi	Aphids	1-2 pts.	Do not apply within 7 days of harvest.
	Cabbage looper Diamondback moth Imported cabbageworm Webworm	2 pts.	
Leeks	Aphids	1½-2 pts.	Do not apply within 3 days of harvest.
	Onion maggot flies	2½ pts.	
	Thrips	3 pts.	

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Lentils	Cowpea aphid Pea aphid	1½ pts.	Do not apply within 3 days of harvest.
Lettuce	Aphids Leafhoppers Spider mites	2 pts.	Do not apply within 7 days of harvesting head lettuce or within 14 days of harvesting leaf lettuce.
	Cabbage looper	3 pts.	
Melons (Cantaloupe, Casaba, Crenshaw, Honeydew Melons, Honey Balls, Muskmelons, Persian Melons and hybrids of these, Watermelons and their hybrids)	Aphids Spider mites	1½-2 pts.	Do not apply to melons unless plants are dry. Do not apply within 1 day of harvest.
	Cucumber beetles	2-3 pts.	
	Leaf miners	2 pts.	
	Leafhoppers	1½-2 pts.	
	Pickleworms	2 pts.	
	Squash vine borer	3 pts.	
Mushrooms	Mites Phorid and Sciarid flies	2½ pts. in 130 gallons of water; or, 2 tablespoons in 3 gallons of water per 1000 sq. ft. of bed	Make thorough applications as soon after picking as possible. Repeat applications as necessary, usually twice a week. Do not apply within 1 day of harvest.
Mustards	Aphids Cabbage looper Imported cabbageworm	2 pts.	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear. Do not apply within 7 days of harvest.
	Flea beetles	1½-2 pts.	
Okra	Aphids	1½ pts.	Do not apply within 1 day of harvest. Make no application after pods start to form.
	Japanese beetle	2 pts.	
Onions	Onion maggots	1½-2½ pts.	Do not apply within 3 days of harvest.
	Onion thrips	1½-2 pts.	
Peas	Aphids	1½-2 pts.	Do not apply within 7 days of harvest if vines are to be fed, or within 3 days of harvest if vines are not to be fed.
	Grasshoppers	2 pts.	
	Leafhoppers	1¼-4 pts.	
Peppermint, Spearmint	Aphids Flea beetles Leafhoppers Spider mites	1½ pts.	Do not apply within 7 days of harvest.
Peppers	Aphids	1-2½ pts.	Do not apply within 3 days of harvest.
	Pepper maggots	2½ pts.	
Potatoes	Aphids Grasshoppers Leafhoppers	2 pts.	May be applied on the day of harvest.
	False chinch bugs	1½ pts.	
	Mealybugs	2-2½ pts.	

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Pumpkins	Aphids Pickleworms Spider mites	2 pts.	Do not apply to pumpkins unless plants are dry. Do not apply within 3 days of harvest.
	Leafhoppers	1½-2 pts.	
	Cucumber beetles Squash vine borer	3 pts.	
Radish, Horseradish	Aphids	1½-2 pts.	Do not apply within 7 days of harvest.
Rice	Rice leaf miner	2½ pts.	Make first application shortly after the first rice blades appear on the surface of the water and repeat if necessary. Do not apply within 7 days of harvest.
	Rice stink bugs	1-1½ pts.	Apply by airplane in 2 gallons of water per acre during the early milk and dough stage of growing rice. Repeat applications as necessary. Do not apply within 7 days of harvest.
Rutabaga	Aphids	1½ pts.	Do not apply within 3 days of harvest.
Spinach	Aphids	2 pts.	Do not apply within 7 days of harvest.
Squash	Aphids Leaf miners Spider mites Pickleworm	2 pts.	Do not apply to squash unless plants are dry. Do not apply within 1 day of harvest.
	Cucumber beetles Squash vine borer	3 pts.	
Strawberries	Aphids Spider mites	1½ pts.	Do not apply within 3 days of harvest.
	Field crickets Lygus bugs Spittlebugs Thrips	1½-3 pts.	
	Potato leafhopper Strawberry leafroller Strawberry root weevil Whitflies	1½-2½ pts.	
Sweet Corn	Japanese beetle	2 pts.	Do not apply within 5 days of harvest. Injury may occur in the whorl or to the silks.
Sweet Potatoes	Leafhoppers	1½-2 pts.	Do not apply within 3 days of harvest.
	Morninglory leaf miner	2½-3 pts.	
Tomatoes	Aphids	1½ pts.	Do not apply within 1 day of harvest.
	Drosophila	2½ pts.	
	Spider mites	1½ pts.	
	Armyworms Fruitworms (California only)	2¾ qts.	Do not apply within 3 days of harvest.

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Turnip	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear. Do not apply within 7 days of harvest if tops are to be used for food or feed.

Vegetables Grown in Commercial Greenhouses: Apply to give complete coverage.

Crop	Pests Controlled	Rate/100 gals.	Interval (Days) Between Last Application and Harvest
Cucumbers	Aphids Armyworms Cabbage loopers Earwigs Garden fleahoppers Mealybugs Spider mites Thrips Whiteflies	1½-2 pts.	Spray plants thoroughly. Do not apply to cucumber unless plants are dry. Do not apply within 1 day of harvest.
Endive	Aphids Armyworms Cabbage loopers Serpentine leaf miners Thrips Whiteflies	1½-2 pts.	Spray plants thoroughly. Do not apply within 7 days of harvest.
Lettuce	Aphids Armyworms Cabbage loopers Serpentine leaf miner Thrips Whiteflies	1½-2 pts.	Spray plants thoroughly. Do not apply within 14 days of harvesting leaf lettuce or within 7 days of harvesting head lettuce.
Radish	Aphids Flea beetles	1½-2 pts.	Spray plants thoroughly. Do not apply within 7 days of harvest.
Tomato	Aphids Armyworms Cabbage loopers Cutworms Drosophila Garden fleahoppers Mealybugs Serpentine leaf miners Spider mites Thrips Tomato russet mites Whiteflies	1½-2 pts.	Spray plants thoroughly. Do not apply within 1 day of harvest.
Watercress	Aphids Serpentine leaf miners Thrips	1½-2 pts.	Spray plants thoroughly. Do not apply within 7 days of harvest.

Crop	Pests Controlled	Rate/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Almonds	Aphids Spider mites	1-2 pts.	2-4 pts.	May be applied on the day of harvest.
	Peach twig borer	1-1½ pts.	2-3 pts.	Apply during the petal fall period or during the period appropriate for spraying larvae of the May brood. May be applied on the day of harvest.
	The rates for use on almonds are based on a standard of 200 gal./acre dilute spray for mature trees. Do not apply more than 8 lbs. actual DOUGLAS 57% MALATHION per acre to almond trees.			
Apples	Budmoth Forbes scale Woolly apple aphid	1 pt.	4 pts.	Do not apply within 3 days of harvest
	Eastern tent caterpillar	1-1½ pts.	4-6 pts.	
	Green apple aphid Rosy apple aphid	½ pts.	6 pts.	
	Codling moth Plum curculio Red-banded leafroller	2 pts.	8 pts.	
	Mealybug Mites, such as Clover mite, European red mite, Twospotted spider mite, Willamette mite	1-2 pts.	4-8 pts.	
	The rates for use on apples are based on a standard of 400 gallons per acre dilute spray for mature trees pruned 20 to 22 feet high in rows 40 feet apart.			
DOUGLAS 57% MALATHION may cause fruit injury to McIntosh and Cortland varieties if spray is applied within 4 weeks of harvest.				
Dormant or Delayed Dormant Sprays	Aphids Mites Red-banded leafrollers	1 pts. + 1 gal. superior oil	—	Make full coverage dormant or delayed dormant applications only.
Apricots	Aphids Codling moth European fruit lecanium Orange tortrix Soft brown scale Terrapin scale	1½-2 pts.	4½-6 pts.	Do not apply within 7 days of harvest.
	The rate for use on apricots is based on a standard of 300 gallons per acre dilute spray for mature trees.			
Avocado	Greenhouse thrips Latania scale Omnivorous looper Orange tortrix Soft brown scale	½ pts.	7½ pts.	Do not apply within 7 days of harvest.
	The rate for use on avocado is based on a standard of 500 gallons per acre dilute spray for mature trees.			

Crop	Controlled	100 gals.	100 gals.	
Blackberry Boysenberry Dewberry Loganberry Raspberry	Aphids Rose scale chafers Japanese beetle Leafhoppers Mites Thrips	1 1/2 pts.	3 pts.	Do not apply within 1 day of harvest.
The rates for use on brambles are based on a standard of 200 gallons per acre dilute spray.				
Blueberries	Blueberry maggots	1 pt. + 1 1/2 qts. Staley's Sauce Base No.7	—	For use in the Northeast only. Apply in 100 gallons of water per acre. Do not apply within 8 hours of harvest.
	Cherry fruitworm	1 pt.	2 pts.	Do not apply within 1 day of harvest.
	Cranberry fruitworm	1 pt.	2 pts.	Make first application at egg hatch and repeat applications every 4 or 5 days until a total of four applications has been made. Do not apply within 1 day of harvest.
	Japanese beetle	3/4 pt.	1 1/2 pts.	Make application when first berries turn blue and at 10 day intervals as long as infestation persists. Do not apply within 1 day of harvest.
The rates for use on blueberries are based on a standard of 200 gallons per acre dilute spray.				
Cherry	Black cherry aphid Fruit-tree leafroller	1 1/2 pts.	6 pts.	Do not apply within 3 days of harvest.
	Cherry fruit fly Japanese beetle	1 pt.	4 pts.	
	The rates for use on cherries are based on a standard of 400 gal./acre dilute spray for mature trees. Do not apply more than 8 lbs. of actual DOUGLAS 57% MALATHION per acre to cherry trees.			
Injury may occur on certain varieties of sweet cherries, particularly in the Northwest.				
Citrus Grapefruit Kumquat Lemon Lime Orange Tangerine Tangelo	Black scale (single and off-brooded) California red scale Citricola scale Purple scale Soft brown scale Yellow scale	1-1 1/2 pts.	—	Do not apply when trees are in bloom. Do not apply within 7 days of harvest.
	Florida purple scale Florida red scale	2 pts.	—	
	Citrus red mites Thrips	—	2 1/2 pts.	Apply in 200 gallons of water per acre. Do not apply when trees are in bloom. Do not apply within 7 days of harvest.
The rate for use on citrus is based on a standard of 500 gallons per acre dilute spray for mature trees.				

Crop	Pests Controlled	Rate/100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Currants Gooseberries	Japanese beetles	1 1/2 pts.	3 pts.	Do not apply within 3 days of harvest.
	Rose chafers Mites	1 pt.	2 pts.	
The rates for use on currants and gooseberries are based on a standard of 200 gallons per acre dilute spray				
Figs	Dried fruit beetles Vinegar flies	—	2 qts. + 1-2 gals. unsulfured molasses	Do not apply within 3 days of harvest.
Filberts	Apple mealybug Eye-spotted bud moth Filbert aphids Tingids	1 pt.	4 pts.	Do not apply within 3 days of harvest.
	Scales (crawler stages)	1 pt.	—	
The rates for use on filberts are based on a standard of 400 gal./acre dilute spray for mature trees. Do not apply more than 3 lbs. of actual DOUGLAS 57% MALATHION per acre to filbert trees.				
Grapes	Leafhoppers Spider mites	1 1/2 pts.	3 pts.	Do not apply within 3 days of harvest
	European fruit lecanium	1 1/2 pts.	—	Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom. Do not apply within 3 days of harvest.
	Mealybugs	—	1 1/2 pts.	Apply in 50-100 gallons of water per acre. Do not apply within 3 days of harvest.
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 Ribier varieties when sprays containing DOUGLAS 57% MALATHION are applied after clusters appear.				
Grape Vines (Overwintering on nursery stock only)	Grape phylloxera	3 pts.	—	Remove excell soil from the roots and dip in the DOUGLAS 57% MALATHION solution. Submerge the entire root system for 5 minutes. Keep the solution agitated at all times.
Macadamia Nuts	Green stink bugs	1 1/2 pts.	—	Apply when insects start to feed on the nuts and repeat as necessary. May be applied during harvest.
	No more than 15 lbs. of actual DOUGLAS 57% MALATHION per acre should be applied to macadamia nut trees.			
Nectarines	Spider mites	1-2 pts.	3-6 pts.	Do not apply within 7 days of harvest.
	Plum curculio	2 pts.	6 pts.	
The rates for use on nectarines are based on a standard of 300 gallons per acre dilute spray for mature trees.				
DOUGLAS 57% MALATHION may cause fruit spotting on nectarines.				
Papaya	Aphids Mealybugs	1 1/2-2 pts.	—	May be applied on the day of harvest.

Crop	Pests Controlled	Rate/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Peaches	Black cherry aphid Black peach aphid European red mite Green peach aphid Rusty plum aphid Japanese beetle Spider mites	1 pt.	3 pts	Do not apply within 7 days of harvest.
	Oriental fruit moth Plum curculio	2 pts.	3 qts.	
	Cottony peach scale European fruit lecanium Terrapin scale	2 pts.	—	Make full coverage applications at comple- tion of hatching, about the last of June. Do not apply within 7 days of harvest.
The rates for use on peaches are based on a standard of 300 gal./acre dilute spray for mature trees. Do not apply more than 9 lbs. of actual DOUGLAS 57% MALATHION per acre to peach trees.				
Pears	Aphids	1 pt.	3 pts.	Do not apply within 1 day of harvest.
	Mealybug Mites Pear psylla	1-2 pts.	3-6 pts.	
	Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller	2 pts.	6 pts.	
The rates for use on pears are based on a standard of 300 gallons per acre dilute spray for mature trees.				
Injury may occur under certain conditions in the Northeast on Bosc pears.				
Pecans	Aphids Spider mites Walnut aphid	1½-2 pts.	7½-10 pts.	May be applied on the day of harvest.
	European red mite	1¼ pts.	6¼ pts.	May be applied on the day of harvest.
	Pecan phylloxera	1¼ pts.	6¼ pts.	Apply when buds begin to develop and re- peat as necessary. May be applied on the day of harvest.
	Pecan nut casebearer Walnut husk fly	1¼ pts.	6¼ pts.	Apply after first generation eggs begin to hatch. May be applied on the day of har- vest.
The rates for use on pecans are based on a standard of 500 gallons per acre dilute spray for mature trees 25-35 feet high.				
Pineapple	Mealybug	1 pt.	8 pts.	Do not apply within 7 days of harvest.
Plums and Prunes	Mealy plum aphid Plum curculio	1-1½ pts.	3 pts.	Do not apply within 3 days of harvest. Make full coverage applications to trunks and scaffold limbs 4 times at 21-day inter- vals beginning with emergence in June. In Georgia, two applications each 4 weeks apart for first (April and May) and second (August and September) broods. Do not apply within 3 days of harvest.
	The rates for use on plums and prunes are based on a standard of 300 gallons per acre dilute spray for mature trees.			

Crop	Pests Controlled	Rate/100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Quince	Codling moth Oriental fruit moth Plum curculio	2 pts.	6 pts.	Do not apply within 3 days of harvest.
	Spider mites	1-2 pts.	3-6 pts.	
	Forbes scale	1 pt.	—	Make full coverage applications when crawlers are present, about first or second cover and last half of July. Do not apply within 3 days of harvest.
The rates for use on quince are based on a standard of 300 gallons per acre dilute spray for mature trees.				
Walnuts	Aphids European red mite Walnut aphid	1/2 pt.	1 1/2-3 pts.	May be applied on the day of harvest.
	Walnut husk fly	1/2 pt.	1 1/2-3 pts.	Apply with conventional sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts./acre with DOUGLAS 57% MALATHION. May be applied on the day of harvest.
		—	—	3-4 pts.

Field Crops and Pasture and Range Grasses

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Alfalfa	Alfalfa weevil larvae Aphids Grasshoppers Lygus bugs Potato leafhoppers Spider mites Spittlebugs Stink bugs	1 1/2-2 pts.	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 outside of hives. May be applied on the day of harvest.
	Armyworms	2 pts.	
	Clover leaf weevil	1 1/2 pts.	
	Vetch bruchid	2-2 1/2 pts.	
Clover	Alfalfa weevil larvae Aphids Grasshoppers Lygus bugs Potato leafhoppers Spider mites Spittlebugs	1 1/2-2 pts.	Do not apply to clover in bloom. May be applied on the day of harvest.
	Armyworms	2 pts.	
	Clover leaf weevil	1 1/2 pts.	

Crop	Controlling	Rate/A	Application and Remarks
Corn (Grain or Forage)	Aphids Corn earworm Corn rootworm adults Grasshoppers Sap beetle Thrips	1½ pts.	For control of corn earworm and sap beetles, begin treatments when 10% of the ears show silk. Repeat applications at 3-5 day intervals until 4-5 applications have been made. Do not apply within 5 days of harvest or forage use.
	Armyworms	1½-2 pts.	
Injury may occur in the whorl and silk stages with DOUGLAS 57% MALATHION.			
Cotton	Brown cotton leafworm Cotton aphid Cotton leafworm Cotton leafperforator Desert spider mite Leafhoppers Lygus bugs Thrips Whitellies	½-2 pts.	May be applied on the day of harvest. Consult local agricultural authorities for exact time of application.
	Boil weevil	2-4 pts.	
	Cotton fleahoppers	1-1½ pts.	
	Fall armyworms Garden webworms Grasshoppers	1½-3 pts.	May be applied on the day of harvest.
	Lygus bugs Thrips	1-4 pts.	
Grasses (Barnyardgrass, Canarygrass, Fescue, Orchardgrass, Red top, Timothy, Yellow foxtail)	Cereal leaf beetle	1-1½ pts.	May be applied on the day of harvest or grazing.
Pasture and Range Grass, Grass and Grass Hay	Aphids Grasshoppers Leafhoppers	1½-2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	May be applied on the day of harvest or grazing.
	Armyworms	2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	
Peanuts	Potato leafhoppers Thrips	1½ pts.	May be harvested or grazed on the day of application.
Safflower	Aphid Grasshoppers Lygus bugs	1½-2 pts.	Do not apply within 3 days of harvesting seeds.
Small Grains (Barley, Oats, Rye, Wheat)	Cereal leaf beetle	1-1½ pts.	Do not apply within 7 days of harvest or forage use.
	English grain aphids Grasshoppers Greenbugs	1½ pts.	
	Winter grain mite	2 pts.	

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Sorghum	Greenbugs	1½ pts.	Do not apply within 7 days of harvest or forage use.
Soybeans	Green cloverworms Mexican bean beetle	3 pts.	May be applied on the day of harvest or forage use.
Sugar Beets	Aphids Spider mites	1½-2 pts.	Do not apply within 7 days of harvest if tops are to be used as feed or forage.
	Grasshoppers	3 pts.	
Tobacco	Aphids	1½-2½ pts.	May be applied on the day of harvest. Use maximum dosage in plant beds.
Vetch	Omnivorous leaf tier Pea aphid Vetch bruchid	1½-2 pts.	May be applied on the day of harvest or grazing.

Stored Products

Site	Pests Controlled	Rate	Directions For Use
Stored in-shell Almonds	Indian meal moth Merchant grain beetle	4 fl. oz. in sufficient water to treat 10,000 lbs of almonds.	Use a suitable mechanical spray applicator that regulates the rate application to the flow of the almonds. Avoid spraying with a fine mist that drifts away. Shield the nozzle against wind and air currents.
Stored Peanuts	Confused flour beetle Flat grain beetle Granary weevil Indian meal moth Lesser grain borer Red flour beetle Rice weevil Rusty grain beetle Saw-toothed grain beetle	1 pt. in 2½ gal. of water OR 8 pts. in 19 gal. of water.	Residual Warehouse Spray - Before Storing Peanuts: Apply as a coarse spray at the rate of 2 gal. per 1,000 sq. ft. of surface or to run-off. Clean warehouse thoroughly of trash and remains of old peanuts 1 to 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 to 8 feet and the ground to a distance of 6 feet from the warehouse.
		2½ pts. in 5 gal. of water for each 15 tons of farmers stock peanuts.	Bulk Spray Treatment-Peanuts Going 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. 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, by using low nozzle pressure. Shield the nozzle against wind and air currents.

Site	Pests Controlled	Rate	Directions For Use
Nonmedicated cattle feed concentrate blocks	Cigarette beetles	8 pts. in 25 gal. water	Before storing feed blocks thoroughly clean storage areas and remove and burn all debris and sweepings. Apply as a thorough application for a residual spray.
		4 fl. oz. in 1 qt. water	Treat paper on the side next to the feed concentrate at a rate of 100 mg/sq. ft., or 1 qt. of diluted DOUGLAS 57% MALATHION per 710 sq. ft.
Bagged citrus pulp Residual warehouse spray	Almond moth Angoumois grain beetle Cigarette beetle Confused flour beetle Flat grain beetle Indian meal moth Mediterranean flour moth Red flour beetle Saw-toothed grain beetle	1 pt. in sufficient water to make 2½ gals of spray OR 8 pts. per 19 gal of water	Apply spray at the rate of 2 gallons per 1,000 sq. ft. of surface or to run-off. Before bagged citrus pulp is stored, thoroughly clean warehouses by removing and burning all debris and sweepings. Thoroughly spray with sufficient pressure, interior of empty warehouse (including cracks and protected places), outside walls to a height of 6 to 8 feet and ground to a distance of about 6 ft. from warehouse.
Do not use treated burlap bags other than for dried citrus pulp.			
Stored Grains (Barley, corn, grain sorghum, oats, rice, rye, wheat) and field or garden seeds	Cereal leaf beetle Confused flour beetle Flat grain beetle Granary weevil Indian meal moth Lesser grain-borer Maize weevil Red flour beetle Rice weevil Rusty grain beetle Saw-toothed grain beetle	8 pts. per 25 gal of water	Residual Spray Before Storing Grains: Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris. For a residual wall, floor and machinery spray in grain elevators in treating truck beds, box cars and ships' holds, before loading grain make a thorough application.
		1 pt in 2 to 5 gal of water per 1,000 bushels	Grains Going Into Storage: Apply as the grain is being loaded or turned into final storage.
		½ pt in 1 to 2 gal of water per 1,000 sq ft of grain surface area.	As a Surface Treatment After Grains are Stored: Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.
Warehouse	Khapra Beetle	8 pts. per 20 gallons of water	Apply spray at the rate of 2 gallons per 1,000 sq ft of surface or to run-off. Thoroughly spray with sufficient pressure, interior of empty warehouse including cracks and protected places.

Fly and Mosquito Control

Fly Control: For use in and around buildings which house domestic animals, around yards, homes and meat and food-processing plants. Do not use in edible products areas of food processing plants, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.

Pests Controlled	Rate	Directions For Use
Adult flies	Straight Sprays: 5 Tablespoons + 1 gal water OR 1 cup + 2½ gal water OR 1 quart + 12 gal water.	Apply as a spray at the rate of 1 gallon per 1,000 sq. ft. on painted surfaces and 2 gals per 1,000 sq. ft. on unpainted surfaces where flies alight or congregate, such as walls, ceilings, stanchions, windows in dairy barns, fences, around garbage cans, etc.
Adult flies Fly maggots	Bait Sprays: 5 Tablespoons + 7 Tablespoons sugar or molasses (unsulfurized) or corn syrup + 1 gal water OR 1 cup + 1 cup sugar or molasses (unsulfurized) or corn syrup + 2½ gal water OR 1 quart + 2½ lbs sugar or 1 quart molasses (unsulfurized) or 1 quart corn syrup + 12 gal water.	Apply as a bait spray over the surface of manure or poultry droppings. In loafing sheds, spray the dry bedding within 18 inches of the walls and around upright braces. For effective control in and around dairy barns, fly-breeding sites such as manure and other waste material, should be eliminated. Do not apply to freshly whitewashed surfaces. Wait 14 days after whitewashing before applying.

Repeat applications as necessary.

Avoid contamination of milk, milk equipment and water.

Avoid contamination of feed and food products, also drinking fountains and feed troughs.

Remove lactating dairy animals from buildings before treating. Also remove animals under one month of age before treating.

Avoid applying oil-based formulations to valuable ornamental plants as injury may occur.

Mosquito larvae	13 fl oz per acre	For use in standing water (intermittently flooded areas, stagnant water, temporary rain pools). Mix in sufficient water or oil when applied by air or ground equipment.
Mosquito adults	1 part to 28 parts water, fuel oil or diesel oil.	Spray building foundations; shrubs, low trees and lawn areas.

Livestock Pest Control

Animal	Pest	Rate	Remarks
Hogs	Lice	1 gal per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray to animals, pens and litter. One treatment may be sufficient. Repeat only if needed.
	Sarcoptic mange	1 gal per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray to all animals in herd, bedding and walls. Use extreme care to thoroughly cover all body surfaces of the animal, including inside of ears. One thorough spraying will usually control sarcoptic mange of swine, however, extensive cases will require second treatment about 10 days after first application.
			After spraying, swine should be kept out of sun and wind for a few hours.
			Residue tolerance: 4 ppm in meat, fat, and meat by-products.
Avoid contamination of feed, food containers and watering troughs.			
Sheep and Goats	Lice Ticks Keds	1 gal per 100 gals of water OR 6½ ozs per 5 gals 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.
Horses, beef and non-milking cattle	Lice	1 gal per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray. One treatment may be sufficient. Repeat only if needed.
			BACK-RUBBING DEVICES: To reduce lice apply a mixture of 2% DOUGLAS 57% MALATHION in fuel oil. There may also be a reduction in hornflies. These devices should be made continuously accessible, one to each 35-45 head of cattle. Back-rubbing devices must be retreated every 2 to 3 weeks.
	Ticks	1-2 gals per 100 gals of water OR 6½-13 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed.
	Hornflies	1-1½ gals per 100 gals of water OR 6½-10 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed.
Do not apply to lactating dairy animals, or nonlactating dairy animals within 2 weeks of freshening.			
Do not treat animals under one month of age.			
Residue tolerance: 4 ppm in meat, fat and meat by-products.			
Poultry: Chickens, Ducks Geese, Turkeys	Northern fowl mite Poultry lice Chicken red mite	2 lbs per 1 gal water per 100-150 birds	Repeat application in 4-8 weeks or when necessary. As a supplement to premise treatment for chicken red mite.

Animal	Pest	Site	Rate	Remarks
	Northern fowl mite Chicken body lice Shaft lice	Tail dipping	8½ ozs per 15 gals water per 400 birds	Hold bird by wings and dip 3 to 4 inches of tail into solu- tion. Treat vent and sur- rounding areas. Repeat in 7-10 days if necessary.
	Chicken red mite Poultry lice	Roost paint	2-7 ozs per 1 gal water	Brush on at rate of 1 pt per 150 ft of roost.
	Northern fowl mite Chicken red mite Poultry lice Flies	Premise treatments	4 tbs per 1 gal water	Apply liberally to litter, walls, ceilings, roost nests and adjacent areas. Force spray into cracks and crev- ices.
	Poultry ticks	Premise treatments	6-7 ozs per 1 gal water	Apply liberally to walls, ceil- ings and adjacent areas. Force spray into cracks and crevices.
	Chiggers	Range treatments	1-1½ pt per acre	Treat range thoroughly the day before placing poultry on range. Repeat every 2-3 weeks.
Residue tolerance: 4 ppm in or on meat and meat by-products Eggs 0.1 ppm (from application to poultry)				
Domestic pets (dogs and cats)	Fleas Lice Ticks	—	1 oz/gal	Wet animal thoroughly. Re- peat in 2 to 3 weeks if neces- sary.
	Fleas Ticks	Premise Treatment:	5 oz/gal	Apply per 1,000 sq ft of sur- face to pet quarters, yards and lawns. Remove manure or debris before treating. Repeat treatment in 3 to 4 weeks if necessary.

OUTDOOR ORNAMENTALS

Flowers, Shade Trees, Shrubs

Injury may occur on Ferns, Hickory, Viburnum, Lantana, Crassula and Canareti Juniper following the use of DOUGLAS 57% MALATHION, slight injury has also been reported on Boston, Pteris, and Maidenhair Ferns, Petunias, Small-Leaf Spirea, White Pine and Maples. Under Extreme heat, drought and disease conditions the emulsifiable concentrates may cause slight damage to elms.

Pest	Rate	Remarks
Aphids Spider mites	1½ pts per 100 gal OR 2 teaspoons per gal	—
Bagworms Birch leaf miner Boxwood leaf miner	2 pts per 100 gal OR 2 teaspoons per gal	—
European pine shoot moth Four-lined leaf bug Japanese beetle adult Potato leafhopper Rose leafhopper Tarnished plant bug Thrips	1½ pts per 100 gal OR 2 teaspoons per gal	—

Pest	Rate	Remarks
Lace bug	1 pt per 100 gal OR 2 teaspoons per gal	—
Mealybugs Whiteflies	1½ pts per 100 gal OR 2 teaspoons per gal	—
Oak kermes	2 pts per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Tent caterpillar	2 pts per 100 gal OR 2 teaspoons per gal	—
Oyster shell scale	1 pt per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Euonymus scale Scurfy scale	1½ pt per 100 gal OR 2 teaspoons per gal	—
Azalea scale Magnolia scale Pine leaf scale	2 pts per 100 gal OR 2 teaspoons per gal	—
Fletcher scale	2 pts per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Florida red scale Juniper scale	2 pts per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Black scale crawlers Soft brown scale	2¼ pts per 100 gal OR 2 teaspoons per gal	—
Monterey pine scale	2½ pts per 100 gal OR 2 teaspoons per gal	—
Pine needle scale	4 pts per 100 gal OR 4 teaspoons per gal	—
Wax scale	4 pts per 100 gal OR 4 teaspoons per gal	Apply in spring when crawlers are active. Repeat 1 or 2 full-coverage applications at 10-day intervals.

Forest Trees

Tree	Pest	Rate	Remarks
Deciduous Forest and Shade trees	Tent caterpillar	2 pts/100 gal water	Make thorough coverage application before larvae reach third instar.
Pines	Pine needlesheath miner	1½ pts/acre	Apply by ground or aircraft equipment in 25 gals of water. Make application when air is calm and temperature is below 68°F. Apply when 75% of larvae have left overwintering mines.
Eastern pines	Pine tortoise scale	1½ pts/acre	Apply by aircraft in 2 gals of water per acre when crawlers emerge. Repeat application in 1 week under conditions of heavy infestations. Make application when air is calm and temperature is below 68°F.
Red pine	Red-headed pine sawfly	0.8 pt/acre	Apply by mist blower in 2 gallons of water per acre when egg hatch is complete.

Around the Home

Site	Pest	Rate	Remarks
In and around greenhouses and gardens	Millipedes Sawbugs Springtails	1 tsp/gal	Apply to 150 square feet of soil surface or where insects congregate. Repeat at 7 to 10 day intervals as needed.
In and around homes	Bedbugs	2 to 4 tablespoons per gallon of deodorized kerosene	Apply lightly to all mattress surfaces in sufficient quantity to "mist" the fabric and generously to beds and woodwork, with special care taken to wet all possible hiding places.
Lawns	Ant mounds	1 1/2 pts/100 gal	Spray ant hills thoroughly so that they are well soaked. For other small ants in flower beds, lawns, around trees, spray lightly in the infested areas. Repeat in 10 to 15 days if ants return.
	Ground pearls	3 to 4 qts/100 gal	Make full coverage to soil surface when ground pearl nymphs are in the pink, "crawler" or active stage and immediately wash into soil with additional water.

On and Around Cull Fruit and Vegetable Dumps

Pest	Rate	Remarks
Drosophila flies Dried fruit beetles	1 1/2 gal per 100 gal water	Apply as a drench using 8 to 10 gal of spray per 100 sq ft. For best results, dumps should not be over 18 inches deep. DO NOT FEED TREATED FRUIT AND VEGETABLES.

In and Around Wineries and Processing Plants

Drosophila flies	3 1/2 oz in 1 qt water	Paint all doors and window screens. AVOID CONTAMINATION OF WINE, FOOD, UTENSILS, EQUIPMENT AND WATER.
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Plants Processing Dry Milk

Black carpet beetles Trogoderma species	1 pt per 2 1/2 gal	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.
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CAUTION: DOUGLAS 57% MALATHION sprays may damage finished surfaces and fabrics. Avoid contamination of food, utensils, milk, milk equipment, and water. Do not use in milk processing rooms.

Crack and Crevice Treatment in Food Handling Establishments

IN FOOD AREAS: Includes areas for receiving, serving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups).

Pest	Rate	Directions for Use
Ants Carpet beetles Cigarette beetles Clover mites Confused flour beetles Crickets Drug store beetles Flat grain beetles Granary weevils Indian meal moths Red flour beetles Rice weevils Roaches Rusty grain beetles Saw-toothed grain beetles Silverfish Spiders	1 pt/2½ gal OR 1 part in 19 parts mixture of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon-type solvent.	Apply in small amounts directly into cracks and crevices using a pin stream of insecticide into points such as expansion joints between different elements of construction or between equipment bases and the floor, wall voids, motor housing, junction boxes or switch boxes, conduits or hollow equipment legs where the named insects hide. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces. Repeat application as necessary. Application must be made only by a commercial pest control operator.

IN NONFOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage.

Pest	Rate	Directions for Use
Ants Carpet beetles Cigarette beetles Clover mites Confused flour beetles Crickets Drug store beetles Flat grain beetles Granary weevils Indian meal moths Red flour beetles Rice weevils Roaches Rusty grain beetles Saw-toothed grain beetles Silverfish Spiders	1 pt/2½ gal OR 1 part in 19 parts mixture of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon-type solvent.	Apply as a coarse spray to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter. Repeat application as necessary. Application must be made only by a commercial pest control operator.