MAX KILL®

MALATHION 57-WE

Water Emulsifiable - Dilute Before Using

NOV 4 1985 Under the Federal Inserticide, Fungicide, and Branticide Act, os omended, in the posticide tegistered under EPA Rog. Mon.

AIDS IN CONTROL OF EXPOSED STAGES OF: Rice Weevil, Granary Weevil, Saw-Toothed Grain Beetle, Flat Grain Beetle, Red Flour Beetle, Confused Flour Beetle, Rusty Grain Beetle, Lesser Grain Borer, Indian Meal Moth, Angoumois Grain Moth, in wheat, barley, oats, rice, rye, corn, sorghum and sunflower seeds.

ACTIVE INGREDIENTS:

Malathion*...........57.0%

INERT INGREDIENTS:

Xylene range solvent.....32.4% Other inerts......10.6%

Total.....100.0%

*O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate.

CONTAINS:

5 lbs. Malathion* per gal.

*Contains CYTHICN® Insecticide 'THE PREMIUM GRADE MALATHION

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CAUTION

Keep Out Of Reach Of Children

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED call a physician or poison control center. Do not induce vomiting unless directed by a physician. It can be hazardous to induce vomiting.

IF INHALATION results in illness, remove to fresh air, and call a physician. Refer to OSHA permitted exposure limits for the ingredients.

IF ON SKIN immediately remove contaminated clothing and wash skin with scap and plenty of water.

IF IN EYES flush with plenty of water for at least 15 minutes.

NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

See side panel for additional precautionary statements.

EPA REG. NO. 2548-27

EPA EST. NO. 2548-KS-1

® Registered Trademark of Research Products Company

: -- • • Registered Trademark of American Cyanamid Company

NET CONTENTS

GALLONS

MANUFACTURED BY

Research Products Company

Salina, Kansas 67401.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (& DOMESTIC ANIMALS) CAUTION

Rig # 2000 27

Do not get in the eyes.

Avoid skin contact.

Wash thoroughly with soap and water after using.

Avoid inhalation of spray mist.

Harmful if swallowed.

Do not spray directly on pets, domestic livestock, especially dairy animals.

Do not use in milk houses or dairy houses.

ENVIRONMENTAL HAZARDS

This product is toxic to fish.

Keep out of lakes, streams, or ponds.

Do not apply where run-off is likely to occur.

Do not apply where weather conditions favor drift from areastreated.

This pesticide is highly toxic to bees exposed to 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.

Non Warranty

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

- PROHIBITIONS
 Do not contaminate water, food, or feed by storage or disposal.
- 2. PESTICIDE DISPOSAL

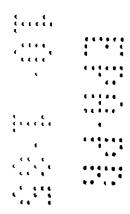
 Pesticides wastes are toxic. Improper disposal of excess pesticide, 'spray mixture, or rinsate is a violation of federal law. If these wastes caddot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance.

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3. CONTAINER DISPOSAL

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

4. GENERAL INFORMATION Consult federal, state and local disposal authorities for approved procedures other than those given above. Approved procedures vary considerably for different types of generators.



113 # 35 98-27 174 /C SHMENTS, 4/2 X

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

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

As an aid in the control of roaches, ants, spiders, siverfish, crickets, clovermites, carpet beetles, drug store beetles, cigarette beetles, and other listed insects, apply Max Kill Malathion 57 emulsifiable liquid at the rate of 1 gallon in 20 gallons of water. Apply in small amounts directly into cracks and crevices using a pin stream of insecticide. This includes points between different elements of construction, between equipment bases and the floor, wall voids, and hollow equipment legs where 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.

Do not use this product in conduits, motor housings, and electrical switch boxes.

IN NON-FOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewers), entries, vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage areas (after canning or bottling). Mix 1 gallon of this concentrate with 20 gallonsof water. 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.

AS A GRAIN AND SUNFLOWER SEED PROTECTANT: For each 1000 bushels to be put into storage, mix 1 pint of this concentrate with 3 gallons of water and spray the emulsion onto the commodity as it is put into storage. Spray as much of the commodity surface as possible. Good coverage is necessary for good protection.

For grain treatment 1 pint of Malathion 57 can be mixed with enough mineral oil to give no more than .02% mineral oil on 1000 bu. of grain. The mineral oil must meet specifications given in 21 CFR 172.878.

Example - Mix 1 pint of Malathion 57 with at most 1.7 gallons of 7 lb./gal. mineral oil and treat 1000 bu. of 60. lb./bu. wheat.

AS A TOP DRESSING FOR GRAIN AND SUNFLOWER SEEDS IN STORAGE: For each 1000 square feet of commodity surface mix 1 pint of this concentrate with 6 quarts of water and spray the surface. Where infestation has already taken place, rake the surface to a depth of about 4 inches after spraying and respray the new surface with the same strength mixture.

AS A CLEAN-UP FOR GRAIN AND SUNFLOWER SEED FACILITIES: First clean up the storage bins, elevators, elevator boots, handling equipment, shipholds, barges; grain trailers and all other facilties to be sprayed. Remove all old grain, seed and debris. Best results are obtained when the emulsion is used on clear, surfaces. Mix 1 gallon of this concentrate with 20 gallons of water and spray

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the surfaces until they are wet.

The MAX KILL MALATHION 57 WE booklet is a part of labeling. It contains instructions concerning many uses not listed on this label. If Malathion 57 is to be used for commodities not specified on this label the booklet must first be in the user's possession and must be consulted.

MAX KILL

MALATHION 57-WE

Water Emulsifiable - Dilute Before Using

ACTIVE INGREDIENTS:

Malathion*.....57.0%

INERT INGREDIENTS:

Total......100.0%

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CONTAINS:

5 lbs. Malathion* per gal.

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EPA REG. NO. 2548-27

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GALLONS

MANUFACTURED BY

Research Products Company

Salina, Kansas 67401

NOV 4 1985

Under the Federal Inc.
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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (& DOMESTIC ANIMALS) CAUTION

Do not get in the eyes.

Avoid skin contact.

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Avoid inhalation of spray mist.

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This product is toxic to fish.

Keep out of lakes, streams, or ponds.

Do not apply where run-off is likely to occur.

Do not apply where weather conditions favor drift from areastreated.

This pesticide is highly toxic to bees exposed to 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.

Non Warranty

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

DIRECTIONS FOR USE

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REENTRY STATEMENT

Do not allow entry into treated areas until spray has settled, unless full protective clothing is worn. Applies to foliar applications to agricultural crops. Does not apply to use on livestock.

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STORAGE AND DISPOSAL

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

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- PESTICIDE DISPOSAL Pesticides wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the mearest EPA regional office for guidance.
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 Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.
- 4. GENERAL INFORMATION Consult federal, state and local disposal authorities for approved procedures other than those given above. Approved procedures vary considerably for different types of generators.

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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) Belween Last Application and Harvest
Asparagus	Asparagus aphid Asparagus beelle	2 pts.	Do not apply within 1 day of harvest.
	Thrips	11/2-2 pts.	
Beans (Green Beans, Lima Beans, Navy Beans, Red Kidney Beans, Snap Beans, Wax Beans, Cowpeas and	Aphids Bean leaf beetles Blister beetles Cucumber beetles Potato leafhoppers Lygus bugs	2 pts.	Do not apply within 1 day of harvest.
Blackeyed Peas)	Japanese beetle Mexican bean beetle	11/2-2 pts.	
	Red Spider mites	11/2 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	11/2-2 pts.	Do not apply within 7 days of harvest if tups 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
	Diamondback moth Webworm	2 pts.	control of other insects, begin when insects appear.
Carrots	Aphids	1 1/2-2 pts.	Do not apply within 7 days of harvest.
	Leathoppers	21/2 pts.	Sometappy manner days of margost.
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Crop	Pests Controlled	Rate/A	Interval (Days) Belween Last Application and Harvest	
auliflower	Diamondback moth	2-4 pts.	Do not apply within 7 days of harvest.	
	Aphids	1-2 pts.	Do not apply milling a days of marvest.	
lery, Anise	Aphids . Spider mites	1 1⁄2 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.	
ollards	Aphids	1½-2 pts.	Do not apply within 7 days of harvest. For	
	Harlequin cabbage bug	1 pt.	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.	
cumbers	Aphids Pickleworms Spider mites	11⁄2-2 pts.	Do not apply to cucumbers unless plants	
	Squash vine borer	3 pts.	are dry. Do not apply within 1 day of harvest.	
	Cucumber beetle Leaf miner	2 pts.		
ndelion, Parsley, rsnip, Swiss Chard, ltercress	Aphids	11/2-2 pts.	Do not apply within 21 days of harvesting parsley or within 7 days of harvesting dandelion, parsnip, Swiss chard or watercress.	
gplant	Aphids Spider mites	1 pt.	Oo not apply within 3 days of harvest.	
	Lacebugs	3 pts.		
ve	Aphids Spider mites	1 1/2-2 pts.	Do not apply within 7 days of harvest.	
rlic, Shallots	Aphids Thrips	11/2-2 pts.	Do not apply within 3 days of harvest.	
ps	Aphids Spider mites	1 pt.	Do not apply within 10 days of harvest.	
ile	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	
	Webworm Diamondback moth	2 pts.	control of other insects, begin when in sects appear.	
ohlrabi	Aphids	1-2 pts.		
	Cabbage looper Diamondback moth Imported cabbageworm Webworm	2 pts.	Do not apply within 7 days of havest.	
	Aphids	11⁄2·2 pls.	1 1 1	
•	Onion maggot flies	21/2 pts.	Do not apply within 3 days of harvest.	
	Thrips	3 pts.	1	

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Crop	Pests Crop Controlled		Interval (Days) Between Last Application and Harvest	
Lentils	Cowpea aphid Pea aphid	1 1/2 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,	Aphids Spider mites	1½-2 pls.		
Crenshaw, Honeydew Melons, Honey Balls,	Cucumber beetles	2-3 pts.	Do not apply to melons unless plants are	
Muskmelons, Persian	Leaf miners	2 pts.	dry. Do not apply within 1 day of harvest.	
Melons and hybrids of these, Watermelons and	Leathoppers	11/2-2 pts.		
their hybrids)	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 in-	
	Flea beetles	1 1/2-2 pts.	sects appear. Do not apply within 7 days harvest.	
Okra	Aphids	1 1/2 pts.	Do not apply within 1 day of harvest. Make	
	Japanese beetle	2 pts.	no application after pods start to form.	
Onions	Onion maggots	11/2-21/2 pts.	Do not apply within 3 days of harvest.	
	Onion thrips	11/2-2 pts.		
Peas	Aphids	11/2-2 pts.	Do not apply within 7 days of harvest i	
	Grasshoppers	2 pts.	vines are to be led, or within 3 days o harvest if vines are not to be led.	
	Leafhoppers	11/4-4 pts.		
Peppermint, Spearmint	Aphids Flea beetles Leathoppers Spider mites	11/2 pts.	Do not apply within 7 days of harvest.	
Peppers	Aphids	1-21/2 pts.	Do not apply within 3 days of harvest.	
	Pepper maggots	21/2 pts.	···.	
Potatoes	Aphids Grasshoppers Leafhoppers	2 pts.	May be applied on the day of harvest.	
•	False chinch bugs	1 1/2 pls.		
	Mealybugs	2-21/2 pts.]	

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Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest	
Pumpkins	Aphids Pickleworms Spider miles	2 pts.	Do not apply to pumpkins unless plants are	
	Leafhoppers	11/2-2 pts.	dry. Do not apply within 3 days of harvest.	
	Cucumber beetles Squash vine borer	3 pts.		
Radish, Horseradish	Aphids	1 1/2-2 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	1-11/2 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	11/2 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	1 1/2 pts.		
	Field crickets Lygus bugs Spittlebugs Thrips	11/2-3 pts.	Do not apply within 3 days of harvest.	
	Potato leafhopper Strawberry leafroller Strawberry root weevil Whiteflies	1 ½-2½ pts.		
Sweet Corn	Japanese beelle	2 pls.	Do not apply within 5 days of harvest. Injury may occur in the whorl or to the silks.	
Sweet Potatoes	Leathoppers	11/2-2 pls.	Do not apply within 3 days of harvest.	
	Morninglory leaf miner	21/2-3 pts.		
Tomatoes	Aphids	1 1/2 pts.	111	
	Drosophila	21/2 pts.	Do not apply within 1 day of harvest	
	Spider miles	11/2 pts.		
	Armyworms Fruitworms (California only)	2¾ qts.	Do not apply within 3 days of harvest.	

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Crop	Pests Controlled	Rale/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 t cucumber unless plants are dry. Do no apply within 1 day of harvest.	
Endive	Aphids Armyworms Cabbage loopers Serpentine leaf miners Thrips Whiteflies	11/2-2 pts.	Spray plants thoroughly. Do not apply within 7 days of harvest.	_ у
Lettuce	Aphids Armyworms Cabbage loopers Serpentine leaf miner Thrips Whiteflies	1 V ₂ -2 pts.	Spray plants thoroughly. Do not apply within 14 days of harvesting leaf lettuce of within 7 days of harvesting head lettuce.	
Radish	Aphids Flea beetles	11/2-2 pts.	Spray plants thoroughly. Do not app within 7 days of harvest.	ly
Tomato	Aphids Armyworms Cabbage loopers Cutworms Drosophila Garden fleahoppers Mealybugs Serpentine leaf miners Spider mites Thrips Tomato russet mites Whiteflies	1 ½-2 pts.	Spray plants thoroughly. Do not app within 1 day of harvest.	
Watercress .	Aphids Serpentine leaf miners Thrips	1 ½-2 pls.	Spray plants thoroughly. Do not app within 7 days of harvest.	ly .

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Crop	Pests Controlled	Rale/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Almonds	Aphids Spider miles	1-2 pts.	2-4 pts.	May be applied on the day of harvest.
	Peach twig borer	1-1 <i>1</i> / ₂ pts.	2-3 pts.	Apply during the petal fall period or during the period appropriate for spraying larvae of the May brood. May be appied on the day of harvest.
	The rates for use on alr for mature trees. Do no			tandard of 200 gallons per acre dilute spray sactual v per acre to almond trees. Malathion 57
Apples	Budmoth Forbes scale Woolly apple aphid	1 pt.	4 pts.	
	Eastern tent caterpillar	1-11/2 pls.	4-6 pts.	
	Green apple aphid Rosy apple aphid	11/2 pts.	6 pts.	
	Codling moth Plum curculio Red-banded leafroller	2 pts.	8 pts.	Do not apply within 3 days of harvest.
	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 ag for mature trees prune			ndard of 400 gallons per acre dilute spray ows 40 feet apart.
Mala	thion 57 emulsifiable varieties if spray is app			e fruit injury to McIntosh and Cortland narvest.
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.
Apricols	Aphids Codling moth European fruit lecanium Orange tortrix Soft brown scale Terrapin scale	1 ½-2 pls.	4½-6 pts.	Do not apply within 7 days of harvest
	The rate for use on apr for malure trees.	icots is base	d on a stan	dard of 300 gallons per acre dilute spray ;
Avocado	Greenhouse thrips Latania scale Omnivorous looper Orange tortrix Solt brown scale	1 ½ pts.	71⁄2 pls.	Do not apply within 7 days of har/esf. '
	The rate for use on avo for mature trees.	cado is base	d on a stan	dard of 500 gallons per acre dilute spray

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Crop	Pests Controlled	Rate/ 100 gals.	Rale/A	Interval (Days) Between Last Application and Harvest			
Blackberry Boysenberry Dewberry Loganberry Raspberry	Aphids Rose scale chafers Japanese beelle Leafhoppers Mites Thrips	1 ½ pts.	3 pts.	Do not apply within 1 day of harvest.			
	The rates for use on bi spray.	rambles are b	ased on a s	tandard of 200 gallons per acre dilute			
Blueberries	Blueberry maggots	1 pt. + 1½ 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.	11/2 pts.	Make application when first berries turn blue and at 10 day intervals as long as intestation persists. Do not apply within 1 day of harvest.			
	The rates for use on bi	lueberries are	based on a	standard of 200 gallons per acre dilute			
Cherry	Błack cherry aphid Fruit-tree leafroller	11/2 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 nallons per acre dilute spray for mature trees. Do not apply more than 8 lbs of actual per acre to cherry trees. Malathion 57						
	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	1-1½ 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	-	21/2 pts.	Apply in 200 gallons of water decisore. Do not apply when trees are in bloom. Do not apply within 7 days of harvest.			
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Crop	Pests Controlled	Rale/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest			
Currants Gooseberries	Japanese beetles	1 1/2 pts.	3 pts.	Do not analysistin 2 days of harvest			
	Rose chafers Mites	1 pt.	2 pts.	Do not apply within 3 days of harvest.			
	The rates for use on oper acre dilute spray.		gooseberries	are based on a standard of 200 gallons			
Figs	Oried 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 for mature trees. Do			dard of 400 gallons per acre dilute spray of actual / per acre to filbert trees. Malathion 57			
Grapes	Leafhoppers Spider mites	1 1/2 pts.	3 pts.	Do not apply within 3 days of harvest			
	European fruit lecanium	11/2 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 are applied after clusters appear. Malathion 57						
Grape Vines (Overwintering on nursery stock only)	Grape phylloxera	3 pts.	_	Malathion 57 Remove/excess soil from the roots and dip in the / solution. Submerge the entire root system for 5 minutes. Keep the solution agitated at all times.			
Macadamia Nuts	Green slink 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 Nala	per act	re should be applied to macadamia nut trées.			
Nectarines	Spider mites	1-2 pts.	3-6 pts.	D. A. A. Millio 7 days of how set			
	Plum curculio	2 pts.	6 pts.	Do not apply within 7 days of harvest, ;			
	The rates for use on nectarines are based on a standard of 300 gallons per acre dilute spray for mature trees.						
Malat	nion 57 may cause	e fruit spottin	g on nectarine	es.			
Papaya	Aphids Mealybugs	11/2+2		May be applied on the day of harvest.			

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Pests Controlled	Rate/ 100 gais.	Rate/A	Interval (Days) Between Last Application and Harvest		
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.		
Aphids	1 pt.	3 pts.			
Mealybug Mites Pear psylla	1-2 pts.	3-6 pts.	Do not apply within 1 day of harvest.		
Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller	2 pts.	6 pts.	- So not apply main 1 day of harrost.		
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.					
Aphids Spider mites Walnut aphid	1½-2 pts.	7½-10 pts.	May be applied on the day of harvest.		
European red mite	11/4 pts.	61/4 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	11/4 pts.	61/4 pts.	Apply after first generation eggs begin to hatch. May be applied on the day of harvest.		
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.					
Mealybug	1 pt.	8 pts.	Do not apply within 7 days of harvest.		
Mealy plum aphid Plum curculio	1-11/2 pts.	3 pts.	Do not apply within 3 days (if hatyest. Make full coverage applications to trunks and scaffold limbs 4 times at 21-day intervals beginning with emergence in June. In Georgia, two applications each 4 weeks apart for first (April and May) chd second (August and September) broods. Do not apply within 3 days of harvest.		
	Black cherry aphid Black peach aphid European red mite Green peach aphid Rusty plum aphid Japanese beetle Spider mites Oriental fruit moth Plum curculio Cottony peach scale European fruit lecanium Terrapin scale The rates for use on pe for mature trees. Do ne trees. Aphids Mealybug Mites Pear psylla Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller Plum curculio Red-banded leafroller The rates for use on pe for mature trees. Injury may occur unde Aphids Spider mites Walnut aphid European red mite Pecan phylloxera Pecan nut casebearer Walnut husk fly The rates for use on pe for mature trees 25-35 Mealybug Mealy plum aphid	Black cherry aphid Black peach aphid European red mite Green peach aphid Austy plum aphid Japanese beetle Spider mites Oriental fruit moth Plum curculio 2 pts. Cottony peach scale European fruit lecanium Terrapin scale The rates for use on peaches are be for mature trees. Do not apply motrees. Aphids 1 pt. Mealybug Mites 1-2 pts. Pear psylla Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller The rates for use on pears are base for mature trees. Injury may occur under certain cor Aphids Spider mites 1½-2 Walnut aphid pts. European red mite 1¼ pts. Pecan phylloxera 1¼ pts. Pecan phylloxera 1¼ pts. Pecan nut casebearer Walnut husk fly 1½-1 pts. The rates for use on pecans are base for mature trees 25-35 feet high. Mealy plum aphid 1 pt. Mealy plum aphid 1 pt. Mealy plum aphid 1-1½-1 pts.	Black cherry aphid Black peach aphid European red mite Green peach aphid Rusty plum aphid Japanese beetle Spider mites Oriental fruit moth Plum curculio Cottony peach scale European fruit lecanium Terrapin scale The rates for use on peaches are based on a st for mature trees. Do not apply more than 9 pot trees. Aphids 1 pt. 3 pts. Aphids 1 pt. 3 pts. Mealybug Mites 1-2 pts. 3-6 pts. Pear psylla Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller The rates for use on pears are based on a stan for mature trees. Injury may occur under certain conditions in the Aphids Spider mites pts. European red mite 1½ pts. 6¼ pts. European red mite 1½ pts. 6¼ pts. Pecan phylloxera 1¼ pts. 6¼ pts. Pecan nut casebearer Walnut husk fly 1 pt. 8 pts. Mealybug 1 pt. 8 pts. Mealybug 1 pt. 8 pts.		

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Crop	Pests Controlled	Rale/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Quince	Codling moth Oriental fruit moth Plum curculio	2 pts.	6 pts.	Oo 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 for mature trees.	quince are bas	sed on a star	ndard of 300 gallons per acre ditute spray
Walnuts	Aphids European red mile Walnut aphid	1∕2 pt.	1 ½-3 pls.	May be applied on the day of harvest.
	Walnut husk fly	1/2 pt.	1½-3 pts. Malath	Apply with conventional sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts. per acre with ion 57. May be applied on the day of harvest.
			3-4 pts.	Apply in 500 gallons of water per acre with air-carrier type sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts. per acre with Malathion 5 May be applied on the day of harvest.

Field Crops and Pasture and Range Grasses

Crop	Pests · Crop Controlled Rate/A		Interval (Days) Between Last Application and Harvest
Allalla	Alfalfa weevil larvae Aphids Grasshoppers Lygus bugs Potato leafhoppers Spider mites Spittlebugs Stink bugs	1 ½-2 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.	ii.
	Clover leaf weevil	1 1/2 pts.	
	Vetch bruchid	2-21/2 pls.	
Clover	Alfalfa weevil larvae Aphids Grasshoppers Lygus bugs Potato leafhoppers Spider mites Spittlebugs	11⁄2-2 pts.	Oo not apply to clover in bloom, May be applied on the day of harvest, ''.'
	Armyworms	2 pts.	
	Clover leaf weevil	11/2 pts.	

Crop	Fests Controlled	Rate: A	Interval (Days) Between Last Application and Harvest	/
Corn (Grain or Forage)	Aphids Corn earworm Corn rootworm adults Grasshoppers Sap beelle Thrips	1 ½ 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	11/2-2 pts.		
	Injury may occur in the	whorl and silk stages w	ilh Malathion 57.	
Cotton	Brown cotton leafworm Cotton aphid Cotton leafworm Cotton leafperforator Desert spider mite Leafhoppers Lygus bugs Thrips Whiteflies	1/2-2 pts.	May be applied on the day of harvest. Consult focal agricultural authorities for exact time of application.	
	Boff weevil	2-4 pts.	May be applied on the day of harvest.	
	Cotton fleahoppers	1-11/2 pts.		
	Fall armyworms Garden webworms Grasshoppers	11/2-3 pts.		
	Lygus bugs Thrips	1-4 pts.		
Grasses (Barnyardgrass, Canarygrass, Fescue, Orchardgrass, Red top, Timothy, Yellow foxtail)	Cereal leaf beetle	1-11/2 pts.	May be applied on the day of harvest o grazing.	
Pasture and Range Grass, Grass and Grass Hay	Aphids Grasshoppers Lealhoppers	1½-2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	May be applied on the day of harvest or	•
	Armyworms	2 pts. OR 1½ pts. in 1 gal.	grazing.	
		of diesel fuel oil per acre		•
Peanuts	Potato lealhoppers Thrips	1 1/2 pts.	May be harvested or grazed on the day of application.	- • •
Salllower	Aphid Grasshoppers Lygus bugs	1 <i>V</i> ₂ -2 pls.	Do not apply within 3 days of harvesting seeds.	, ,
Small Grains	Cereal leaf beetle	1-11/2 pls.	, , ,	•
(Barley, Oats Rye, Wheat)	English grain aphids Grasshoppers Greenbugs	105 pts	Do not apply within 7 days of harvest or forage use.	
	Winter grain mite	2 pts.		

Crop	Pests Controlled	Rate/A	interval (Days) Between Last Application and Harvest	
Sorghum	Greenbugs	1 1/2 pls.	Do not apply within 7 days of harvest or forage use.	
Soybeans	Green cloverworms Mexican bean beette	3 pls.	May be applied on the day of harvest or forage use.	
Sugar Beets	Aphids Spider mites	1 1/2-2 pts.	Do not apply within 7 days of harves tops are to be used as feed or forage.	
	Grasshoppers	3 pts.	tops are to the used as feed of forage.	
Tobacco Aphids		11/2-21/2 pts.	May be applied on the day of harvest. Use maximum dosage in plant beds.	
Vetch	Omniverous leaf tier Pea aphid Vetch bruchid	11/2-2 pts.	May be applied on the day of harvest or grazing.	

Stored Products

Site	Pests Controlled	Rate	Directions ForUse
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 throughly 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 walks 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 peacuts	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.

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Site	Pests Controlled	Rate	Directions / For Use	2717	
Nonmedicated calle 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 thor- ough application for a residual spray.	n	
•		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 per 710 sq. ft. Malathion 57		
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 planes), 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, gals, rice, rye, wheat pandhield or garden seeds sunflower seeds	Cereal leaf beetle Confused flour beetle Flat grain beetle Granary weevil Indian meal moth Lesser grain borer Maize weevil Red flour 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.		
	Rice weevil Rusty grain beetle Saw-toothed grain beetle	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.		
	Angoumois Grain moth	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 in 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.		
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· 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 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 o congregate, such as walls, ceilings, stanchions windows in dairy barns, fences, around garbage cans, etc.	
Adult flies	Straight Sprays: 5 Tablespoons + 1 gal water OR 1 cup + 2½ gal water OR 1 quart + 12 gal water.		
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 loaling 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 factating 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.

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Animai	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 goals. 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.
	Mala	hion 57 (using 57% may also be a reduction continuously accessit	CES: To reduce lice apply a mixture of 2% emulsifiable concentrate) in fuel oil. There in hornflies. These devices should be made ole, one to each 35-45 head of cattle. Backbe 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	1-11/2 gals per 100 gals of water OR 61/2-10 ozs per 5 gals	Apply complete coverage spray. Repeat at 2 week intervals if needed.
i		of water.	Do not apply to lactating dairy animals, or nonlactating dairy animals within 2 weeks of freshening.
			Do not treat animals under one month or 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 tbs 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 recomite.

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Animai	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 solution. Treat vent and surrounding 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 crevices.		
	Poultry ticks	Premise treatments	6-7 ozs per 1 gal water	Apply liberally to walls, ceitings and adjacent areas. Force spray into cracks and crevices.		
	Chiggers	Range trealments	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. Repeat in 2 to 3 weeks if necessary.		
	Fleas Ticks	Premise Trealment:	5 oz/gal	Apply per 1,000 sq ft of surface 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 Malathion 57 emulsifiable concentrate, 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.

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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				

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Pest	Rate	Remarks	
Lace bug	1 pt per 100 gal OR 2 teaspoons per gal	<u></u>	
Mealybugs Whiteflies	11/2 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 leaspoons 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 leaspoons per gal		
Fletcher scale	2 pts per 100 gal OR 2 teaspoons per gal		
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	214 pts per 100 gal OR 2 leaspoons 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	OO 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 be- fore 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 tell overwintering mines.
Eastern pines Pine tortoise scale 11/2 pts/acre		Apply by aircraft in 2 gals of water per acte when crawlers emerge. Repeat application in 1 week under conditions of theatry infestations. Make application when air is calm and temperature is below 68°F.	
Red pine	Red-headed pine sawlly	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	11/2 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	1½ 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	31/2 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 2½ 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 much 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 clacks; 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.

Malathion 57

CAUTION: A 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 Silverlish 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/21/2 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.