

Malathion 5EC

IMSECTICIDE

ACCEPTED

AUG 28 1987

Under the Federal Landwide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1913-21

ACTIVE INGREDIENTS:	
Malathion (0.0-dimethyl phosphorodithioate of	
diethyl mercaptosuccinate	%
INERT INGREDIENTS: 11.0	%
Xylene Range Aromatic Solvent 32.0	%
TOTAL100.0	

This product contains 5 lbs, Malathion per gallon at 68°F

Keep Out Of Reach Of Children WARNING—AVISO

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

See Side Panel for Additional Precautionary Statement

EPA Reg. No. 19713-217 EPA Est. No. 19713-MS-1 Net Contents

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Malathion Mixture, Liquid NA2783 RQ

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Causes eye irritation. Do not get in eyes, skin, or clothing. Wash skin thoroughly after handling. Remove and wash contaminated clothing before reuse.

WARNING

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, do not induce vomiting. Get medical attention IN CASE OF CONTACT, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse. NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

ENVIRONMENTAL HAZARDS

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This pesticide 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 when weather conditions favor drift from target area.

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. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Specific Re-entry and Farmworker Safety Statements:

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.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) 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: WARNING. Area treated with Malathion on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, refer to the Statement of Practical treatment located on container label.

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 Crop 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	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	112 pts.	
Dry Beans (California and Northwest only)	Lygus bugs	112-2 pts. (ground) 112 pts. (air) in 10 gallons of water	Do not apply within 1 day of harvest.
Beets (Garden and Table)	Aphids	1יד -2 pts.	Do not apply within 7 days of harvest if tops are to be used as food or feed.
Broccoli Aphids Cabbage looper 1-2 pts 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 of er insects begin when in- cects appear
Carrots	Aphids	112-2 pts.	Do not apply within 7 days of harvest.
	Leafhoppers	21/2 pts.	

Crop	Pasts Centralied Hate/A		Interval (Days) Services Line Application and Harvest
auliflower	Diamondback moth	2-4 pts.	Do not apply within 7 days of harvest.
	Aphids	1-2 pts.	Do not apply within r days or harrest.
elery, Anise	Aphids Spider mites	1% pls.	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	11/2-2 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.
Cucumbers	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.	
Dandelion, Parsley, Parsnip, Swiss Chard, Watercress	Aphids	11/6-2 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	1 ½-2 pts.	Do not apply within 7 days of harvest.
Garlic, Shallots	Aphids Thrips	11/2-2 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 feaves appear. On other plantings, and for
	Webworm Diamondback moth	2 pis	control of other insects, begin when in- sects appear.
Kohirabi	/phids	1-2 pts.	
	Cabbage looper Diamondback moth Imported cabbageworm Webworm	2 pts.	Do not apply within 7 days of harvest.
Leeks	Aphids	11/2-2 pts	
	Onion maggot flies	21/2 pts.	Do not apply within 3 days of harvest.
	Thrips	3 pts.	7

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Creg	Posts Controlled	Rate/A	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	11/2-2 pts		
Crenshaw, Honeydew Melons, Honey Balis,	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	Leafhoppers	1½-2 pts.		
their hybrids)	Pickleworms	2 pts.]	
	Squash vine borer	3 pts.		
Mushrooms	Mites Phorid and Sciarid flies	212 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	11/2-2 pts.	sects appear. Do not apply within 7 days of harvest.	
Okra	Aphids	11/2 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 pls	Do not apply within 7 days of harvest in	
	Grasshoppers	2 pts	vines are to be fed, or within 3 days of harvest if vines are not to be fed.	
	Leafhoppers	114-4 pts	THE PERSON WINDS BIC HOLES OF TOO	
Peppermint, Spearmint	Aphids Flea beetles Leathoppers Spider mites		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	11/2 pts		
	Mealybugs	2-21-2 pts		

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Crep	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest	
Pumpkins	Aphids Pickleworms Spider mites	2 pts.		
	Leafhoppers	11/2-2 pts	Do not apply to pumpkins unless plants are dry. Do not apply within 3 days of harvest	
	Cucumber beetles Squash vine borer	3 pts.		
Radish, Horseradish	Aphids	11/2-2 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	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 dry Do not apply within 1 day of harve	
	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	11/2-21/2 pts.		
Sweet Corn	Japanese beetle	2 pts.	Do not apply within 5 days of harvest in jury may occur in the whorl or to the sitks	
Sweet Potatoes	Leafhoppers	11/2-2 pts.	Do not apply within 3 days of harvest.	
	Morninglory leaf miner	21/2-3 pts.	Do not apply within 3 days of harvest.	
Tomatoes	Aphids	11/2 pts.	-	
	Drosophila	21/2 pts.	Do not apply within 1 day of harvest	
	Spider mites	1½ pts		
	Armyworms Fruitworms (California only)	2% qts.	Do not apply within 3 days of harvest.	

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Сгер	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 summe fall plantings in the South, begin wher leaves appear. On other plantings, ar control of other insects, begin whe sects appear. Do not apply within 7 da harvest if tops are to be used for for feed.	n true nd for en in- ays of		

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

Pests Crop Controlled		Rate/100 gats.	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 cucumber unless plants are dry Do rapply within 1 day of harvest		
Endive	Aphids Armyworms Cabbage loopers Serpentine leaf miners Thrips Whiteflies	1½-2 pts.	Spray plants thoroughly. Do not apply writhin 7 days of harvest.		
Lettuce	Aphids Armyworms Cabbage loopers Serpentine leaf miner Thrips Whiteflies	11/2-2 pts.	Spray plants theroughly. Do not apply within 14 days of harvesting leaf lettuce or within 7 days of harvesting head lettuce.		
Radish	Aphids Flea beetles	11/2-2 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		Spray plants thoroughly. Do not apply within 1 day of harvest.		
Watercress	Aphids Serpentine leaf miners Thrips		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	1-11/2 pts.	2-3 pts	Apply during the petal fall period or during the period appropriate for spraying larvae of the May brood. May be appled on the day of harvest.		
				tandard of 200 qallons per acre dilute spray sactual Malathion 5EC per acre to		
Apples	Budmoth Forbes scale Woolly apple aphid	1 pt.	4 pts			
	Eastern tent caterpillar	1-11/2 pts.	4-6 pts.			
	Green apple aphid Rosy apple aphid	1י/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 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.					
	Malathion SEC may cause fruit injury to McIntosh and Cortland varieties if spray is applied within 4 weeks of harvest					
Dormant or Delayed Dormant Sprays	Aphids Miles 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 pis.	41-2-6 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	1½ pts	71-2 pts	Do not apply within 7 days of harvest		
	The rate for use on a for mature trees	vocado is ba	sed on a sta	andard of 500 gallons per acre dilute spray		

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Crop	Pests Controlled	Rate/ 100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Blackberry Boysenberry Dewberry Loganberry Raspberry	Aphids Rose scale chafers Japanese beetle Leafhoppers Mites Thrips	י פון פיו	3 pts	Do not apply within 1 day of harvest
	The rates for use on br spray	ambles are b	ised on a si	andard 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.	1 ½ pls	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 bi	lueberries are	based on a	standard of 200 gallons per acre dilute
Cherry	Black cherry aphid Fruit-tree leafroller	1½ pts.	6 pts.	Do not apply within 3 days of harvest
	Cherry fruit fly Japanese beetle	1 pt.	4 pts.	, so the second
	per aere dilute of actual Malat	chion 5EC	per act	are based on a standard of 400 re trees. Do not apply more the to cherry trees.
	Injury may occur on o	ertain varietii	s of sweet	cherries, particularly in the Northwest
Citrus Grapefruit Kumquat Lemon Lime Oranpe Tang .ne Tangeto	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? days of harvest.
	Florida purple scale Florida red scale	2 pts.	1 -	
	Citrus red mites	1	1	Apply in 200 gallous of water per acre. De

4175-271		Pro 12					
Crop	Pests Controlled	fiale: 100 gals.	Rate/A	Interval (Days) Setween Lest Application and Harvest			
Currants	Japanese beetles	11/2 pts	3 pts.	De not apply within 2 days of housest			
iooseberries	Rose chaters Mites	1 pt.	2 pts.	Do not apply within 3 days of harvest.			
	The rates for use on oper acre dilute spray.		poseberries	are based on a standard of 200 gallons			
igs	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 mot'r Filbert aphids Tingids	1 pt.	4 pts	Do not apply within 3 days of harvest.			
	Scales (crawler stages)	1 pt.	-				
	The rates for per acre dilu 3 lbs. of Mala	use on f te spray athion 5E0	ilherts for matu per acr	are based on a standard of 400 gre trees. Do not apply more that to filbert trees.			
Grapes	Leafhoppers Spider mites	11/2 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		11:2 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.						
				al, Italia and Ribier varieties when sprays			
Grape Vines (Overwintering on nursery stock only)	Grape phylloxera	3 pts.	_	F. move excess soil from the roots and dip in the CYTHION solution. Submerge the entire root system for 5 minutes. Keep the solution agitated at all times.			
Macadamia Nuts	Green stink bugs	1º2 pts.	-	Apply when insects start to feed on the nuts and repeat as necessary. May be applied during harvest.			
	No more than 15 be applied to m			Malathion SEC per acre should			
Nectarines	Spider mites	1-2 pts.	3-6 pts.				
	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						
	Malathion 5EG	С шау сав	se fruit	spotting on nectarines.			
Papaya	Aphids Mealybugs	11/2-2 pts	_	May be applied on the day of harvest			

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	Pests	Rate/	interval (Days) Between Last			
Gree	Controlled	180 gals.	Rate/A	Application and Harvest		
Peaches :	Black cherry aphid Black peach aphid European red mite Green peach aphid Rusty plum aphid Japanese beetle Spider mites	1 pl.	3 pls	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 pe for mature trees. Do n acre to peach t	ot apply mo	ased on a st re than 9 po	andard of 300 gallons per acre dilute spray unds of actual Malathion SEC per		
Pears	Aphids	1 pt.	3 pts.			
rears -	Mealybug Mites Pear psylla	1-2 pts.	3-6 pts.	Do not apply within 1 day of harvest.		
	Codling moth Fruit-tree leafroiler Plum curculio Red-banded leafroiler	2 pts.	6 pts.	bo not apply within t day of harvest.		
	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 Walgut aphid	11/2-2 pts.	71/2-10 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	11/4 pts.	61.4 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.	6¼ 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.					
Pineapple	Mealybug	1 pt.	8 pts	Do not apply within 7 days of harvest.		
Plums and Prunes	Mealy plum aphid Plum curculio	1-11/2 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 intervals 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 per acre dilute spray f			sed on a standard of 300 gallons		

	Posts	Rate:	Ī	interval (Days) Setween Last
Crep	Controlled	100 gals.	Rate:A	Application and Harvest
Junce	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 for mature trees.	quince are ba	sed on a sta	ndard of 300 gallons per acre dilute spray
Walnuts	Aphids European red mite Walnut aphid	1/2 pt.	11/2-3 pts.	May be applied on the day of harvest.
	Walnut husk fly	1/2 pt.	11/2-3 pts	Apply with conventional sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts per acre with CYTHIGN. 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 ball sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts. per acre with Malathi May be applied on the day of harvest.
Field Crops and Pasture	and Range Grasses			
Crop	Pests Controlled	Rate	•	Interval (Days) Between Last Application and Harvest
Alfalfa	Alfalfa weevil larvae Aphids Grasshoppers	Rate A		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	11/2 pts.]
	Vetch bruchid	2-21/2 pt	S	
Clover Alfalfa weevil larvae Aphids Grasshoppers Lygus bugs Potato leafhoppers Spider mites Spittlebugs		11/2-2 pt	S .	Do not apply to clover in bloom. May be applied on the day of harvest.
	Armyworms	2 pts.		
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11/2 pts.

Clover leaf weevil

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Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest	
Corn (Grain or Forage)	Aphids Corn earworm Corn rootworm adults Grasshoppers Sap beetle Thrips	1½ pls.	For control of com 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 w	rith Malathion 5EC.	
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 local agricultural authorities for exact time of application.	
	Boll weevil	2-4 pts.	1	
	Cotton fleahoppers	1-11/2 pts.	1	
	Fall armyworms Garden webworms Grasshoppers	11/2-3 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	1-11/2 pts.	May be applied on the day of harvest or grazing.	
Pasture and Range Grass, Grass and Grass Hay	Apinds 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 o	
	Armyworms	2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	grazing.	
Peanuts	Potato leashoppers Thrips	1 1/2 pts.	May be harvested or grazed on the day o application.	
Safflower	Aphid Grasshoppers Lygus bugs	11/2-2 pts.	Do not apply within 3 days of harvesting seeds.	
Small Grains	Cereal leaf beetle	1-11/2 pts.	 	
(Barley, Dats, Rye, Wheat)	English grain aphids Grasshoppers Greenbugs	1½ pts.	Do not apply within 7 days of harvest of forage use.	
	Winter grain mite	2 pts.	7	

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Crep	Pests Centrelled	Rate/A	Interval (Days) Between Lest Application and Harvest	
Sorghum	Greenbugs	11/2 pts.	Bo 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	11/2-2 pts.	Do not apply within 7 days of harves tops are to be used as feed or forage.	
	Grasshoppers	illes	topo are to be does as less of ligrage.	
Tobacco	Aphids	1 ימי 2-2 pls	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 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 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 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 cur rents.

Site	Pests Controlled	Rate	Directions For Use
Nonmedicated catle 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.
<u></u>		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 Malathion 5EC per 71 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 treater - in	ap bags other than for d	ried 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	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
`		1/2 pt in 1 to 2 gal of water per 1,000 sq ft of grain surface area.	
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 Lerving areas while food is exposed.

Pests Controlled	Rate	Directions For Use
Adult flies	Straight Sprays: 5 Tablespoons + 1 gal water OR 1 cup + 21/2 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 fi 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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Laimei	Pest	Rate	Remarks
logs .	Lice	1 gal per 100 gals of water OR 61/2 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 gai 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.
2			Residue tolerance: 4 ppm in meat, fat, and meat by-products.
:			Avoid contamination of feed, food containers and watering troughs.
Sheep and Goats	Lice Tirks Krds	1 gal per 100 gals of water OR 61/2 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 it needed.
		Malathion (using 57% may also be a reduction continuously accession)	ICES: To reduce lice apply a mixture of 2% Emulsifiable Concentrate) in fuel oil. There on in hornflies. These devices should be made ble, one to each 35-45 head of cattle. Backlibe 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	Apply complete coverage spray Repeat at 2 week intervals if needed
		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 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 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 reconite.

Animal	Post	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 gai 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 ths per 1 gal water	Apply liberally to kitter, walls, ceilings, roost nests and adjacent areas. Force spray into cracks and crevices.
	Poultry ticks	Premise treatments	6-7 ozs per 1 gai water	Apply liberally to walls, ceilings and adjacent areas. Force spray into cracks and crevices.
	Chiggers	Range treatments	1-11/2 pt per acre	Treat range thoroughly the day before placing poultry on range. Repeat every 2-3 weeks.
-	R		in or on meat and meat b .1 ppm (from application	
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 Treatment:	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 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.

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	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 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Euonymus scale Scurfy scale	11/2 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 toliage.
Black scale rawlers Soft brown scale	21/4 pts per 100 gal OR 2 teaspoons per gal	
Monterey pine scale	2½ pts per 100 gal OR 2 teaspoons per gal	
Pine nradle scale	4 pls 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	11/2 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	11/2 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 ріле	Red-headed pine sawfly	0.8 pt acre	Apply by mist blower in 2 gallons of water per acre when egg hatch is complete

Site	Pesi	Rate	Remarks
In and around greenhouses and gardens	Millipedes Sawbugs Springtails	1 tsp/gat	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 Cuil Fruit and Vegetable Dumps

Pest	Rate	Remarks
Drosophila flies Dried fruit beetles	11/2 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 VEGET-ABLES.
In and Around Winerles ar	nd Processing Plants	
Drosophila flies	3½ oz in 1 qt water	Paint all doors and window screens. AVOID CONTAMINATION OF WINE, FOOD, UTENSILS, EQUIPMENT AND WATER.
Plants Processing Dry Mil	k	
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 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.

CAUTION: Malathion 5EC sprays may damage finished surfaces and fabrics. Avoid contamination of food, utensils, milk, milk equipment, and water. Do not use in milk processing rooms.

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Crack and Cravice 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/21/2 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 pescontrol operator.

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STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS:

Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Do not stack over 2 pallets high. Move containers by handles or case. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled follow these steps:

- Contain spill, absorb with a material such as saw dust, clay granules or dirt.
- 2. Collect and place in suitable containers for disposal.
- 3. Wash area with water and soap to remove remaining pesticide.
- 4. Follow washing with clean water rinse.
- 5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.
- Do not allow run off to enter sewer or contaminate water supplies.
- 7. Dispose of waste.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Metal Containers: 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.

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary

landfill or by other approved state and local procedures.

Plastic Containers: Triple rinse (or equivalent), Then offer for recycling

or reconditioning, or puncture and dispose of in a sanitary

landfill, or incineration, or, if allowed by state and

local authorities, by burning. If burned, stay out of smoke.

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WARRANTY - CONDITION OF SALE:

OUR RECOMMENDATIONS FOR USE of this product are based upon test believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the seller and is accepted as such by the Buyer.