

Martin's

57% Malathion

Premium Grade

Active ingredients:	
Malathion (0,0-dimethyl dithiophosphate of diethyl mercaptosuccinate	57.0%
Inert Ingredients*:	43.0%
Total:	100.0%

*Contains petroleum distillates

An Emulsifiable concentrate containing 5 lbs of actual Malathion per Gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, burque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail)

FIRST AID	
If swallowed:	▪ Call poison control center or doctor immediately for treatment advice. ▪ Do not give any liquid to person. ▪ Do not induce vomiting unless told to do so by the poison control center or doctor. ▪ Do not give anything by mouth to an unconscious person.
If inhaled:	▪ Move person to fresh air. ▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. ▪ Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	▪ Take off contaminated clothing. ▪ Rinse skin immediately with plenty of water for 15-20 minutes. ▪ Call a poison control center or doctor for treatment advice.
If in eyes:	▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes. ▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. ▪ Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

Note to Physicians: Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. Contains petroleum distillate – vomiting may cause aspiration hazard.

For information of this product (including health concerns, medical emergencies or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Do not breathe spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

EPA Reg. No. 769-620-53883

EPA Est. No. 53883-TX-002

NET CONTENTS: _____

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and Other Handlers must wear: Long-sleeved shirt and long pants. Chemical-resistant

gloves, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton. Shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Workers Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specific in the WPS.

User Safety Recommendations:

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates and aquatic life stages of amphibians. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment wash water. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

STORAGE AND DISPOSAL

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

STORAGE: Do not store at temperature above 120°F. Store in original container only and separate pesticide to avoid cross-contamination of other pesticides, fertilizer, food and feed. Keep pesticides in a locked storage area. Store in well ventilated area.

If spilled, absorb in clay or soda ash, sweep up and place in a waste disposal container. Treat spill area with full strength, liquid household chlorine bleach. Let stand for 15 minutes, then retreat. Further treat area with a slurry solution of water and activated charcoal.

PESTICIDE DISPOSAL: Pesticide 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 nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or if allowed by state and local authorities by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton, Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep children and pets off treated area until sprays have dried. Use only with adequate ventilation. After using this product in greenhouses, ventilate thoroughly before occupying enclosed spaces.

FLEA CONTROL

For control of fleas in yards and lawns. Remove manure or debris. Use spray of 5 oz. Of 57% Malathion per 1 gallon of water at a rate of 1 gallon per 1,000 sq. ft. Use garden sprayer.

VEGETABLES CROPS

Apply in a minimum of 30 gallons of spray mix by ground; 5 gallons per acre by air, unless otherwise indicated.

CROPS	PEST CONTROLLED	RATE/ACRE	INTERVAL FROM LAST APPLICATION
Asparagus	Asparagus aphid Asparagus beetle Thrips	2 pints 2 pints 1.5-2 pints	1 day
Dry beans (CA and Northwest only)	Lygus bugs	1.5-2 pints (ground) 1.5 pints by air in 10 gpa	1 day Grazing or feeding of treated crop foliage by livestock is prohibited.
Dry beans succulent beans (including chickpeas, garbanzo, velvet beans)	Aphid, bean leaf and blister beetles, cucumber beetles, potato leafhoppers and lygus bugs Japanese beetles and Mexican bean beetles, Red Spider mites	2 pints 1.5-2 pints 1.5 pints	1 day Grazing or feeding of treated crop foliage by livestock is prohibited.
Beet (Garden and Table)	Aphids	1.5-2 pints	7 days (if tops are to be fed)
Broccoli	Aphids, cabbage looper imported cabbageworm	1-2 pints	3 days
Brussels Sprouts	Aphids	1-2 pints	7 days
Cabbage	Aphids, cabbage looper and imported cabbageworm Diamondback moth and webworms	1-2 pints 2 pints	7 days For caterpillars on summer and fall plantings in the south, begin when true leaves appear. On other plantings and for other insects, apply when insects appear.
Carrots	Aphids Leafhoppers	1.5-2 pints 2.5 pints	7 days
Cauliflower	Diamondback moth Aphids	2-4 pints 1-2 pints	7 days 7 days
Celery	Aphids and Spider mites	1.5 pints	7 days Apply to fresh leaves and stems only. Do not use on crop grown for seed and oil.
Collards	Aphids Harlequin cabbage bug	1.5-2 pints 1 pint	7days For caterpillars on summer and fall plantings in the south, begin when true leaves appear. On other plantings and for other insects, apply when insects appear.
Cucumbers, Chayote Fruit	Aphids, Pickleworms and Spider mites Squash vine borer Cucumber beetle and Leafminer	1.5-2pints 3 pints 2 pints	1 day Apply only when cucumber leaves are dry
Dandelion, Parsley, Parsnip, Swiss Chard, Watercress	Aphids	1.5-2 plants	21 days after treating parsley, 7 days after treating parsnip, dandelion, Swiss chard or watercress.

VEGETABLE CROPS continued

CROPS	PEST CONTROLLED	RATE/ACRE	INTERVAL FROM LAST APPLICATION
Eggplant	Aphids and spider mites Lacebugs	1 pint 3 pints	3 days
Endive	Aphids and spider mites	1.5-2 pints	7 days
Garlic and Shallots	Aphids and thrips	1.5-2 pints	3 days
Hops	Aphids and spider mites	1 pint	10 days
Horseradish	Aphids, Diamondback moth, flea beetles and leafhoppers	1.5-2 pints	7 days
Kale	Aphids, Cabbage Looper. Imported Cabbageworm Web worm Diamondback moth	1-2 pints 2 pints	7 days for control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. For control of other insects, begin when insects appear.
Kohlrabi	Aphids Cabbage Looper, Diamondback moth, Imported Cabbage worm, Webworm	1-2 pints 2 pints	7 days 7 days
Leek	Aphids Onion maggot flies Thrips	1.5-2 pints 2.5 pints 3 pints	3 days
Lentils	Cowpea aphid Pea Aphid	1.5 pints 1.5 pints	3 days 3 days Grazing or feeding of treated crop foliage by livestock is prohibited.
Lettuce (leaf, head)	Aphids, Leafhoppers, Spider mites Cabbage Looper	2 pints 3 pints	14 days
Mushrooms	Mites, Phorid and Sciard flies	2.5 pints in 130 gallons of water; or 2 Tbsp. in 3 gallons of water for 1000 sq. ft. of bed	1 day Make thorough applications as soon after picking as possible. Repeat as necessary, usually twice a week.
Mustards	Aphids, cabbage looper and imported cabbage worm Flea beetles	2 pints 1.5-2 pints	7 days For caterpillars on summer and fall plantings in the south, begin when true leaves appear. On other plantings and for other insects, apply when insects appear.
Okra	Aphids Japanese beetle	1.5 pints 2 pints	1 day
Onion (green, bulb)	Onion maggots Onion Thrips	1.5-2.5 pints 1.5-2 pints	3 days

VEGETABLE CROPS continued

CROPS	PEST CONTROLLED	RATE/ACRE	INTERVAL FROM LAST APPLICATION
Parsnip	Aphids, flea beetles, leafhoppers, spider mites, thrips	1.5-3 pints	7 days
Peas	Aphids Grasshoppers Leafhoppers	1.5-2 pints 2 pints 1.25-4 pints	Do not apply within 7 days of harvest. Grazing or feeding of treated crop foliage by livestock is prohibited.
Peppermint and Spearmint	Aphids, flea beetles, leafhoppers, and spider mites	1.5 pints	7 days
Peppers	Aphids Pepper maggots	1-2.5 pints 2.5 pints	3 days
Potatoes	Aphids, grasshoppers and leafhoppers False chinch bug Mealybugs	2 pints 1.5 pints 2-2.5 pints	0 days
Pumpkins	Aphids, pickleworms and spider mites Leafhoppers Cucumber beetles and squash vine borer	2 pints 1.5-2 pints 3 pints	3 days Apply only when plants are dry.
Radish	Aphids	1.5-2 pints	7 days
Rice, Wild Rice	Rice leafminer Rice stink bugs	2.5 pints 1-1.5 pints	7 days Treat for leafminers shortly after first rice blades appear on surface of the water and repeat if necessary. Apply by air in 2 gpa during early milk and dough stage. Repeat as necessary. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.
Rutabaga	Aphids	1.5 pints	3 days
Salsify	Aphids, Diamondback moth, flea beetles, leafhoppers, spider mites, thrips	1.5-3 pints	7 days
Spinach	Aphids	2 pints	7 days
Squash	Aphids, leafminers, spider mites and pickleworms Cucumber beetles and squash vine borer	2 pints 3 pints	1 day Do not treat unless plants are dry.
Sweet Corn	Japanese beetle	2 pints	5 days. Injury may occur in the whorl or to the silks.

VEGETABLE CROPS continued

CROPS	PEST CONTROLLED	RATE/ACRE	INTERVAL FROM LAST APPLICATION
Sweet Potatoes	Leafhoppers Morning glory leafminer	1.5-2 pints 2.5-3 pints	3 days
Tomatoes	Aphids Drosophila Spider mites Armyworms and Fruitworms in California only	1.5 pints 2.5 pints 1.5 pints 2.75 pints	1 day 3 days
Turnip	Aphids, cabbage looper and imported cabbageworm	1-2 pints	7 days If tops are to be used for food or feed for caterpillars on summer and fall plantings in the south, begin when true leaves appear. On other planting and for other insects, apply when insects appear.
Watercress	Aphids, Serpentine, Leafminers, Thrips	1.5-2 pints	7 days. Spray plants thoroughly.

VEGETABLES GROWN IN COMMERCIAL GREENHOUSES

Apply to give complete coverage.

CROPS	PEST CONTROL	RATE/100 GALLONS OF SPRAY MIX	INTERVAL FROM LAST APPLICATION
Beans	Aphids, Cucumber beetles, leafhoppers and spider mites	1 pint	1 day
Cucumbers	Aphids, armyworms, cabbage loopers, earwigs, garden flea hoppers, mealybugs, spider mites, thrips and whiteflies	1.5-2 pints	1 day Spray plants thoroughly. Do not apply to cucumber unless plants are dry.
Mushrooms	Mites	2.5 pints in 130 gallons of water; or 2 Tbs. In 3 gallons of water/1,000 sq. ft. of bed.	1 day Make thorough applications as soon after picking as possible. Repeat as necessary, usually twice a week.
Endive and Lettuce (leaf, head)	Aphids, armyworms, cabbage loopers, serpentine leafminers, thrips and whiteflies	1.5-2 pints	7 days Spray plants thoroughly.
Onion	Thrips	1 pint	3 days
Peppers	Aphids	1 pint	3 days
Tomato, Eggplant	Aphids, armyworms, cabbage loopers, cutworms, drosophila, garden fleahoppers, mealybugs, serpentine leafminers, spider mites, thrips, tomato russet mites and whiteflies	1.5-2 pints	1 day Spray plants thoroughly 3 days for Eggplant

FRUITS AND NUT CROPS

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Apples	Budmoth, Forbes scale, Woolly apple aphid Eastern tent caterpillar Green apple aphid, Rosy apple aphid Codling moth, Plum curcullo, Redbanded leafroller Mealybug, Mites such as Clover mite, European red mite, Two-spotted spider mite, Willamette mite	1 pint [4 pints] 1-1.5 pints [4-6 pints] 1.5 pints[6 pints] 2 pints[8 pints] 1-2 pints [4-8 pints]	Do not apply within 3 days of harvest. The rates for use on apples are based on a standard of 400 gallons per acre dilute spray for mature trees pruned 20-22 ft. high in rows 40 ft. apart. Malathion may cause fruit injury to McIntosh and Cortland varieties if spray is applied within 4 weeks of harvest.

FRUIT AND NUT CROPS continued

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Dormant or Delayed Dormant Sprays	Aphids, Mites, Redbanded leafroller	1 pint+1 gal superior oil	Make full coverage dormant or delayed dormant applications only.
Apricots	Aphids, codling moth, European fruit lecanium, orange tortix, soft brown scale and terrapin scale	1.5-2 pints [4.5-6 pints] (rate for apricots is based on a standard of 300 gpa dilute spray for mature trees)	7 days
Avocado	Greenhouse thrips, latania scale, omnivorous looper, orange tortix, soft brown scale	1.5 pints [7.5 pints] (rate for avocado is based on standard of 500 gpa dilute spray for mature trees)	7 days
Blackberry Boysenberry Loganberry Rasberry	Aphids, rose scale, chafers, Japanese beetle, leafhoppers, mites, thrips	1.5 pints [3 pints] (rates for brambles are based on a standard of 200 gpa dilute spray)	1 day
Blueberries	Blueberry maggots Cherry fruitworm Cranberry fruitworm Japanese beetle	1 pint+1.5 quarts Staley's Sauce Base No. 7 1 pint [2 pints] 1 pint [2 pints] 0.75 pint [1.5 pints] (rates for brambles are based on a standard of 200 gpa dilute spray)	8 hours Use in northeast only. Apply to 100 gallons water per acre. 1 day 1 day Treat at egg hatch and repeat every 4 or 5 days until a total of 4 applications are made. 1 day Treat when first berries turn blue and at 10 day intervals as long as infestation persists.
Cherry (sweet, sour)	Black cherry aphid and fruit tree leafroller Cherry fruit fly and Japanese beetle	1.5 pints [6 pints] 1 pint [4 pints] (rates are based on a standard of 400 gpa dilute spray for mature trees. Do not use more than 8 lbs. of active ingredient per acre to cherry trees)	3 days (Injury may occur on certain varieties of sweet cherries, particularly in the Northwest.

FRUIT AND NUT CROPS continued

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Chestnuts	Mites	1-1.5 pints	0 day Treat when mites appear in numbers and repeat in 7-10 days. Do not treat after shucks split and do not graze treated areas.
Citrus: Grapefruit, Kumquat, Lemon Lime, Orange Tangerine	Black scale (single and off- brooded) California red scale, Citricola scale, purple scale, soft brown scale, yellow scale. Florida purple scale and Florida red scale, Citrus red mites and thrips	1-1.5 pints 2 pints [2.5 pints]	7 days Do not apply when the trees are in bloom. (rates for citrus are based on a standard of 500 gpa dilute spray for mature trees)
Currants Gooseberries	Japanese beetles Rose chafers and mites	1.5 pints [3 pints] 1 pint [2 pints] (rates for currants and gooseberries are based on a standard of 200 gpa dilute spray)	3 days
Figs	Dried fruit beetles and vinegar flies	- [2 quarts+1-2 gallons unsulfured molasses]	3 days
Grapes	Leafhoppers and spider mites European Fruit lecanium Mealybug	1.5 pints [3 pints] 1.5 pints - [1.5 pints]	3 days 3 days Treat when newly hatched lecanium nymphs are migrating over vines, usually shortly after bloom. 3 days Apply in 50-100 gallons of water per acre. The rates for use on grapes are based on a standard of 200 gpa dilute spray. Injury may occur on grapes of Almeria, Cardinal, Italia and Ribler varieties when this product is applied after clusters appear.
Grape Vines (overwintering on nursery stock only)	Grape phylloxera	3 pints [-]	Remove excess soil from roots and dip in the Malathion solution for 5 minutes. Agitate solution at all times.
Guava, Mango, Passion Fruit	Drosophila	.75 pint/30-40 gal. /Acre	2 days

FRUIT AND NUT CROPS continued

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Macadamia Nuts	Green Stink Bug	1.5 pints [-] No more than 15 lbs. per acre should be applied to macadamia nut trees.	0 days Apply when insects start to feed on the nuts and repeat as necessary. May be applied during harvest.
Melons (Cantaloupe, Casaba, Crenshaw, Honeydew, Honeyballs, Muskmelons, Persian melons and hybrids, Watermelon and hybrids)	Aphids and spider mites Cucumber beetles Leafminers Leafhoppers Pickleworms Squash vine borer	1.5-2 pints 2-3 pints 2 pints 1.5-2 pints 2 pints 3 pints	1 day Do not treat unless plants are dry.
Nectarines	Spider mites Plum curculio	1-2 pints [3-6 pints] 2 pints [6 pints] (rate for nectarines is based on a standard of 300 gpa dilute spray for mature trees)	7 days Malathion may cause spotting of nectarines.
Papaya	Aphids and Mealybugs	1.5-2 pints	May be applied on the day of harvest
Peaches	Black cherry aphid, black peach aphid, European red mite, green peach aphid, rusty plum aphid, Japanese beetle and spider mites Oriental fruit moth and plum curculio Cottony peach scale, European fruit lecanium and terrapin scale	1 pint [3 pints] 2 pints [6 pints] 2 pints [-]	7 days 7 days 7 days Make full coverage applications at completion of hatching about the last of June. The rates for use on peaches are based on a standard of 300 gpa dilute spray for mature trees. Do not apply more than 9 lbs. of a.i. per acre to peach trees.

FRUITS AND NUT CROPS continued

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Pears	Aphids Mealybug, Mites, Pear psylla Codling moth, Fruit tree leafroller Plum curcullo, Red-banded leafroller	1 pint [3 pints] 1-2 pints [3-6 pints] 2 pints [6 pints]	Do not apply within 1 day of harvest. The rates for use of 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 Bose pears.
Pecans	Aphids, spider mites and walnut aphid European red mite Pecan phylloxera Pecan nut casebearer and walnut husk fly	1.5-2 pints [7.5-10 pints] 1.25 pints [6.25 pints] 1.25 pints [6.25 pints] 1.25 pints [6.25 pints]	0 days 0 days 0 days Apply when buds begin to develop and repeat as needed. 0 days Apply when first generation eggs begin to hatch. 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 pint [8 pints]	7 days
Quince	Codling moth, Oriental fruit moth, Plum curcullo Spider mites Forbes scale	2 pints [6 pints] 1-2 pints [3-6 pints] 1 pint	Do not apply within 3 days of harvest. Make full coverage applications when crawlers are present, about first or second cover and last half of July. Do not apply within 3 days of harvest. The rates for use on Quince are based on a standard of 300 gallons per acre dilute spray for mature trees.
Strawberries	Aphids and spider mites Field crickets, Lygus bugs, spittle bugs and thrips Strawberry leafroller, Strawberry Root Weevil, White files	1.5 pints 1.5-2 pints 1.5-2 pints	3 days

FRUIT AND NUT CROPS continued

CROPS	PEST CONTROLLED	RATE/100 GALLONS OF SPRAY [RATE/ACRE]	INTERVAL FROM LAST APPLICATION
Walnuts	Aphids, European red mites and walnut aphid	0.5 pint [1.67 pints]	0 day
	Walnut husk fly	0.5 pint [1.67 pints]	0 day Apply with conventional sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at 4 pints per acre with Malathion.
		- [3-4 pints]	0 day 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 4 pints per acre with Malathion.

FIELD CROPS AND PASTURE AND RANGE GRASSES

CROPS	PEST CONTROLLED	RATE PER ACRE	INTERVAL FROM LAST APPLICATION TO HARVEST
Alfalfa, Clover, Lespedeza, Lupine, Sainfoin, Trefoil Vetch	Alfalfa weevil larvae, aphids, grasshoppers, lygus bugs, potato leafhoppers, spider mites, spittlebugs, stink bugs, Pea aphid, Omnivorous leaf tier	1.5-2 pints	0 days Apply to blooming alfalfa only in early morning or evening when bees are not working fields or not hanging outside of hives.
	Armyworms	2 pints	0 day
	Clover leaf weevil	1.5 pints	0 day
	Vetch bruchid	2-2.5 pints	0 day
Corn (grain or forage)	Aphids, corn Earworm, corn rootworm adults, grasshoppers, sap beetle and thrips	1.5 pints	5 days For corn earworm and sap beetles, treat when 10% of the ears show silk.
	Armyworms	1.5-2 pints	Repeat at 3-5 day intervals until 4-5 treatments have been made.
Cotton	Brown cotton leafworm, cotton leafworm, cotton leaf perforator, dessert spider mite, leafhopper, lygus bugs, thrips and whiteflies	0.5-2 pints	May be applied on the day of harvest. Consult local agricultural authorities for exact time of application.
	Boil weevil	2-4 pints	
	Cotton fleahoppers	1-1.5 pints	
	Fall armyworms, garden webworms, grasshopper	1.5-3 pints	
	Lygus bugs, thrips	4 pints	

FIELD CROPS AND PASTURE AND RANGE GRASSES continued

CROPS	PEST CONTROLLED	RATE PER ACRE	INTERVAL FROM LAST APPLICATION TO HARVEST
Flax	Grasshoppers	1 pint	45 days Grazing or feeding of treated crop foliage by livestock is prohibited.
Grain sorghum	Greenbugs	1.5 pints	7 days of harvest. Grazing or feeding of treated crop foliage by livestock is prohibited
Grasses, Hay (Barnyard grass canary grass, fescue, orchard grass, red top, timothy and yellow foxtail)	Cereal leaf beetle	1-1.5 pints	0 day (harvest or grazing)
Pasture and Range Grass	Aphid, grasshoppers and leafhoppers Armyworms	1.5-2 pints Or 1.5 pints in 1 gallon diesel or fuel oil/acre 2 pints or 1.5 pints in 1 gallon of diesel or fuel oil/acre	May be applied on the day of harvest or grazing.
Small Grains (Barley, oats, popcorn, rye triticale, wheat)	Cereal leaf beetle English grain aphids, grasshoppers, greenbugs Winter grain mite	1-1.5 pints 1.5 pints 2 pints	7 days of harvest or forge use. 7 days of harvest or forge use. 7 days of harvest or forge use.

FLY AND MOSQUITO CONTROL OUTDOORS AROUND DWELLINGS, COMMERCIAL BUILDINGS, INDUSTRIAL BUILDINGS AND AGRICULTURAL BUILDINGS

PEST CONTROLLED	RATE	DIRECTIONS
Adult flies	5 tbsp+1gallon water 1 cup+2.5 gal water 1 quart+12 gal water	Apply one gallon spray per 1000 sq. ft. on painted surfaces and 2 gallon spray per 1000 sq. ft. on unpainted surfaces where flies light or congregate.
Adult flies and fly maggots	Bait sprays: 5 Tbsp+ 7 Tbsp sugar or molasses+1 gal water or 1 cup+1 cup sugar or molasses (unsulfurized) or corn syrup+2.5 gal water or 1 quart +2.5 lbs sugar or 1 quart molasses (unsulfurized) or 1 quart corn syrup + 12 gal water	Apply as a bait over the surface
Mosquito larvae	13 fl oz per acre	Use in standing water (intermittently flooded areas, irrigation systems and sewage systems). Mix in sufficient water or oil when applied by air or ground equipment. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.
Mosquito adults	1 part to 28 parts water, fuel oil or diesel oil	Spray building foundations, shrubs, low trees and lawn areas. NOTE: oil mixes may cause injury to shrubs, trees, and grass. Do not allow either oil or water based sprays to contact automobile paint surfaces.

ON AND AROUND CULL FRUIT AND VEGETABLE DUMPS

PEST	RATE	COMMENTS
Drosophila Flies Dried Fruit Beetles	1.5 gal/100 gal water	Apply as a drench using 8 to 10 gal of spray per 100 sq. ft. For best results, dump should not be over 18 inches deep. DO NOT FEED TREATED FRUIT AND VEGETABLES.

OUTDOOR ORNAMENTALS

Flowers, Shade Trees, Shrubs and Nursery Stock. Injury may occur on ferns, hickory, viburnum, lantana, crassula and Canareti juniper. Slight injury has also been reported on Boston, Pteris and Maldenhair ferns, petunias, small leaf spirea, white pine and maples. When stressed by extreme heat, drought and disease, slight damage may occur on elms.

PEST CONTROLLED	RATE	DIRECTIONS
Aphids and spider mites	1.5 pints per 100 gal OR 2 tsp per gal	
Bagworms, birch leafminer and boxwood leafminer	1.5 pints per 100 gal OR 2 tsp per gal	
European pine shoot moth, four-lined leaf bug, Japanese beetle adult and potato leaf hopper, rose leafhopper, tarnished plant bug and thrips	1.5 pints per 100 gal OR 2 tsp per gal	

OUTDOOR ORNAMENTALS continued

PEST CONTROLLED	RATE	DIRECTIONS
Lace Bug	1 pints per 100 gal OR 2 tsp per gal	
Mealybugs and whiteflies	1.5 pints per 100 gal OR 2 tsp per gal	
Oak kerns Oyster shell scale	2 pints per 100 gal OR 2 tsp per gal	Apply when scale crawlers have settled on foliage.
Tent caterpillar	2 pints per 100 gal OR 2 tsp per gal	
Oyster shell scale	1 pints per 100 gal OR 2 tsp per gal	Apply when scale crawlers have settled on foliage.
Euonymus scale and scurfy scale	1.5 pints per 100 gal OR 2 tsp per gal	
Azalea scale, magnolia scale and pine leaf scale	2 pints per 100 gal OR 2 tsp per gal	
Fletcher scale, Florida red scale, Juniper scale	2 pints per 100 gal OR 2 tsp per gal	Apply when scale crawlers have settled on foliage.
Black scale crawlers and soft brown scale	2.25 pints per 100 gal OR 2 tsp per gal	
Monterey pine scale	2.5 pints per 100 gal OR 2 tsp per gal	
Pine Needle Scale	4 pints per 100 gal OR 4 tsp per gal	
Wax scale	4 pints per 100 gal OR 4 tsp per gal	Apply in spring when crawlers are active. Repeat 1 or 2 full coverage applications at 10 day intervals.

TREE PLANTATIONS

CROPS	PEST CONTROLLED	RATE	REMARKS
Slash pines and pine seed orchard	Pine needle sheath miner	1.5 pints per acre	Apply by ground or aerial equipment in 25 gal water. Make application when air is calm and temperature is below 68°F. Apply when 75% of larvae have left over wintering miners.

IN AND AROUND HOME GREENHOUSES AND GARDENS FOR VEGETABLES

CROPS	PEST CONTROLLED	RATE	REMARKS
Beans	Aphids, Cucumber beetles, leafhoppers and spider mites	1 tsp/gal	1 day
Cucumbers	Aphids, armyworms, cabbage loopers, earwigs, garden fleahoppers, mealybugs, spider mites, thrips and whiteflies	1.5-2 tsp	1 day Spray plants thoroughly. Do not apply to cucumber unless plants are dry.
Endive and Lettuce	Aphids, armyworms, cabbage loopers, serpentine leafminers, thrips and whiteflies	1.5-2 tsp	7 days Spray plants thoroughly.
Onion	Thrips	1 tsp	3 days
Peppers	Thrips	1 tsp	3 days

IN AND AROUND HOME GREENHOUSES AND GARDENS FOR VEGETABLES continued

CROPS	PEST CONTROLLED	RATE	REMARKS
Tomato	Aphids, armyworms, cabbage loopers, cutworms, drosophila, garden fleahoppers, mealybugs, serpentine leafminers, spider mites, thrips, tomato russet mites and whiteflies	1.5-2 tsp	1 day Spray plants thoroughly.
Lawns	Ant mounds Ground pearls	1.5 pints per 100 gallons 3-4 qts. Per 100 gallons	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 area. Repeat in 10 to 15 days if ants return. Make full coverage application to soil surface when ground pearl nymphs are in the pink, crawler or active stage and immediately wash into the soil with additional water.

IMPORTANT: Read these entire Directions and Conditions of Sale before using this product.

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