PM 04 48273-26 3/19/9	5 SI38756Page 12
U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460 NOTICE OF PESTICIDE: <u>x</u> Registration	EPA Reg. Number: 48273-26 Term of Issuance: Conditional
(under FIFRA, as amended)	Name of Pesticide Product: Marman Malathion 56 EC
Name and Address of Registrant (include ZIP Code): MARMAN USA, Inc. c/o RegWest Company P.O. Box 2220 Greeley, CO 80632-2220	
Note: Changes in labeling differing in substance from that accepted in be submitted to and accepted by the Registration Division prior to use correspondence on this product always refer to the above BPA registrati	of the label in commerce. In any
On the basis of information furnished by the registrant, the above name registered/reregistered under the Federal Insecticide, Fungicide and Ro Registration is in no way to be construed as an endorsement or recommen In order to protect health and the environment, the Administrator, on h cancel the registration of a pesticide in accordance with the Act. The with the registration of a product under this Act is not to be construe exclusive use of the name or to its use if it has been covered by other	lenticide Act. lation of this product by the Agency. s motion, may at any time suspend or acceptance of any name in connection I as giving the registrant a right to
This product is conditionally register FIFRA sec. 3(c)(7)(A) provided that you:	ed in accordance with
1. Submit and/or cite all data requir your product under FIFRA sec. 3(c)(5) when registrants of similar products to submit s acceptable responses required for reregistr under FIFRA section 4.	the Agency requires all uch data; and submit
2. Make the following label changes by product for shipment:	efore you release the
a. Add the designation, "EPA Reg. No	. 48273-26 <sup>n°</sup> .
b. Make the corrections described be for use on blueberries so that th appearing on the previously submi	ey agree with that
- Correct the 3 pts./acre rate fo to 1 pt./acre.	or blueberry maggots
- Correct the number of gallons i statement at the end of the blu directions so that it reads as The rates are based on a standa gallons per acre dilute spray.	eberry use follows: "Note: .rd of 200
Signature of Approving Official:	Date: MAR 1 9 1998
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page 2 EPA Reg. No. 48273-26

c. Relocate the following statements from their present location outside the AGRICULTURAL USE REQUIREMENTS box to a location inside the box immediately before the restricted entry interval statement: "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." ť

d. The statement, "Keep children, pets and other unprotected persons out of treated areas until sprays have dried." was specified in the 1988 Malathion Registration Standard as an indoor use caution and is not practical for the non-agricultural uses such as the wide-spread outdoor public health uses which appear on the subject label. Revise the NON-AGRICULTURAL USE REQUIREMENTS box by deleting this statement.

3. Submit two copies of the revised final printed label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,

Marilyn A. Mautz Biologist Insecticide-Rodenticide Branch Registration Division (7504C)

ACCEPTED se 1 of 8 with COMMENTS in EPA Letter Dated:

# MARMAN MALATHION 56 EC

Under the Foderal Insecticide, Fungicide, and Rodenti.ide Act as amonded, for the pesticide

registered under EPA Reg. No. 48273 - 26

MAR 1 9 1998

A Water Emulsifiable Spray Concentrate Insecticide and Miticide

# ACTIVE INGREDIENT:

Malathion: O,O-dimethyl phosphorodithioate of diethyl mercapto	succinate	. 56.0%
OTHER INGREDIENTS*		44.0%
*Contains petroleum distillates	Total	. 100.0%

Contains 5 lbs. of Malathion per gallon.

	Keep Out of Rea	
	WARNING	AVISO
Si usted n	o entiende la etiquet	a, busque a alguien para que
se la expli	que a usted en detall	e. (If you do not understand
this lab	el, find someone to e	explain it to you in detail.)
See back	panel for additional	precautionary statements.

NET CONTENTS: \_\_\_\_\_ GALS.

EPA Reg. No. 48273-EA EPA Est. 51036-GA-1

Sold by MARMAN USA, INC. P.O. Box 22829 Tampa, FL 33622-2829

[Back Panel]

# PRECAUTIONARY STATEMENTS

# Hazards to Humans & Domestic Animals

WARNING: Harmful if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on skin or clothing. Avoid contact with skin. Wash thoroughly after using. Avoid breathing spray mist. Avoid contamination of feed and foodstuff. Keep out of reach of children. Keep container closed and away from heat or open flame. Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible.

# Personal Protective Equipment (PPE)

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 selections 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
- Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and was PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before earing, 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.

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#### Statement of Practical Treatment

If Swallowed: Drink promptly a large quantity of milk, egg whites or gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting as it may cause aspiration pneumonia. If Inhaled: Remove person to fresh air. Apply artificial respiration if indicated. If on Skin: Remove contaminated clothing and wash affected areas with soap and water. If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists. Note to Physician: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

## **Environmental Hazards**

**Outdoor Use on Nonaquatic Sites:** This pesticide is toxic to fish, aquatic invertebrates and aquatic life stages of amphibians. Do not apply directly to water, 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 washwaters. 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.

On Aquatic Sites: This pesticide is toxic to fish, aquatic invertebrates and aquatic life states of amphibians. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. 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.

Indoor Use: Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surfaces until sprays have dried.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

#### 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 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. 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 apply only to uses of this product that are covered by the Worker 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
- Chemical-resistant headgear for overhead exposure.

#### Non-Agricultural Use Requirements

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (for CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep children, pets and other unprotected persons out of treated areas until sprays have dried.

Chemigation Prohibition: Do not apply this product through any type of irrigation system.

## Storage and Disposal

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

Storage: Do not store under conditions which might adversely affect the container or its ability to function properly. Do not store at temperatures below freezing, as such low temperatures may be harmful to product. If frozen, warm to 40°F and redissolve, before using, by rolling or shaking the container. Keep container tightly closed when not in use. Reduce stacking height where local

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conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling. 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: 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.

#### **GENERAL INFORMATION**

For proper mixing, the spray tank should be at least 3/4 filled with water before this product is added. Mechanical agitation or recirculation through the pump by-pass to the tank is usually sufficient for maintaining a good dispersion. Rinse empty container with water and drain into spray tank - repeat twice more. Repeat applications should be made as needed unless otherwise indicated. Consult your state Experiment Station as the to the timing of applications.

Note: The U.S. Food and Drug Administration has set official tolerances for certain pesticide residues. To assure residues on food and forage crops will not exceed established tolerance, use only at recommended rates, and do not apply closer to harvest than specified.

### VEGETABLES

Apply in a minimum of 30 gallons by ground equipment or 5 gallons by air equipment unless otherwise specified. Best results are obtained with uniform coverage. Note: The preharvest interval (PHI) days are indicated in [] after each crop.

		RATE PER	1
CROP	PESTS	ACRE	REMARKS
Jeans (Green, Lima, Navy, Red Kidney, Snap, Wax, Cowpeas, Blackeyed Peas) [1]	Aphids. Bean leaf beetles, Blister beetles, Cucumber beetles, Potato leafhoppers, Lygus burs	2 pints	Do not feed or graze forage, hay or straw to livestock.
	Japanese beetles, Mexican bean beetles	114 - 2 pints	
	Red spider mites	1½ pints	
Dry Beans (California and Northwest only) [1]	Lygus bugs	1½ - 2 pints, or 1½ pints (air) in 10 gals, of water	Do not feed or graze forage, hay or straw to livestock.
Beets (Garden/Table) [3]	Artids	11/2 - 2 pints	
Broccoli [3]	Aphids, Cabbage loopers, Imported cabbageworns	1 - 2 pints	1
Brussels Sprouts [7]	Azhids	1 - 2 pints	
Cabbage [[7]	Achids. Cabbage loopers, Imported cabbageworns	I - 2 pints	
	Diamondback moths, Webworms	2 pints	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.
Cauliflower [7]	Aphids	1 - 2 pints	
	Diamondback moths	2 - 4 pints	
Celery [7]	Aphids, Spider mites	1½ pints	To be applied to fresh leaves and stalks only. Do not use on crops grown for seed and oil.
Coilards [7]	Aphids -	1½ - 2 pints	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 insect appear.
	Hzriequin cabbage bugs	l pint	
Cucumbers [1]	Aphids, Pickleworms, Spider mites	1½ - 2 pints	Do not apply unless plants are dry.
	Squash vine borers	3 pints	
1	Cucumber beetles, Leaf miners	2 pints	
Dandelion, Parsley, Swiss Chard and Watercress [7] Parsnip [21]	Aphids	1 ½ - 2 pints	
Eggplant [3]	Aphids, Spider mites	1 pint	
	Lacebugs	3 pints	1
Endive [7]	Aphids, Spider mites	1 ½ - 2 pints	
Garlic, Shallots [3]	Aphids, Thrips	11/2 - 2 pints	
Hops [10]	Aphids, Spider mites	1 pint	
Kale [7]	Aphids, Cabbage loopers, Imported cabbageworns	1 - 2 pints	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other
	Webworms, Diamondback moths	2 pints	plantings, and for control of other insects, begin when insect appear.
Kohlrabi [7]	Aphids,	1 - 2 pints	
· .	Cabbage loopers, Diamondback moths, Imported cabbageworms, Webworms	2 pints	·

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CROP	PESTS	RATE PER ACRE	REMARKS
Leeks [3]	Aphids	l - 2 pints	
55670 [0]	Onion maggot flies	2½ pints	
	Thrips	3 pints	- <b>1</b> ·
Lentils [3]	Cowpea aphids, pea aphids	I <sup>1</sup> /2 pints	Do not feed or graze forage, hay or stra
Extreme [5]	Compea aprilos, pea aprilos	172 pints	to livestock.
Head Lettuce [7] and Leaf Lettuce [14]	Aphids, Leafhoppers, Spider mites	2 pints	•
	Cabbage loopers	3 pints	
Mushrooms [1]	Mites, Phorid and Sciarid flies	2 1/2 pints in 130 gals. of water; or 2 tbsp. in 3 gal.s of water per 1000 sq. ft. of bed	Make thorough applications as soon af picking as possible. Repeat application as necessary, usually twice a week.
Mustard Greens [7]	Aphids, Cabbage loopers, Imported cabbageworms	2 pints	For control of caterpillars on summer a fall plantings in the South, begin wh true leaves appear.
	Flea beetles	1½ - 2 pints	On other plantings, and for control other insects, begin when insects appear
Okra [1]	Aphids	1½ pints	Make no application after pods start to
<u> </u>	Japanese beetles	2 pints	form.
Dnions [3]	Onion maggots	1½ - 2½ pints	1
	Onion thrips	1½ - 2 pints	7
Peas [3]	Aphids	1½ - 2 pints	Do not apply within 7 days of harvest
	Grasshoppers	2 pints	if vines are to be fed.
	Leafhoppers	1 1/4 - 4 pints	1
Peppermint, Spearmint [7]	Aphids, Flea beetles, Leafhoppers, Spider Mites	1½ pints	
Peppers [3]	Aphids	1 - 21/2 pints	
·····	Pepper maggots	2½ pints	4
White Potatoes [0]	Aphids, Grasshoppers, Leathoppers	2 pints	
frince i oracious [0]	Faise chinch bugs	1½ pints	-
	Mealybugs	2 - 2½ pints	-
Radish, Horseradish [7]	Aphids	11/2 - 2 pints	
Rice [7]	Rice leaf miner	2 pints	Make first application shortly after t first rice blades appear on the surface the water and repeat if necessary.
	Rice stink bugs	l - 1½ pints	Apply by airplane in 2 gallons of wa per acre during the early milk and dou stage of growing rice. Rep applications as necessary.
	Note: For broadcast use only over intermittently fl where fish or shellfish are grown and/or harvested co		on may not be made around bodies of wa
Rutabaga [3]	Aphids	1½ pints	
Spinach [7]	Aphids	2 pints	
Squash [1]	Aphids, Leafminers, Spider mites, Pickleworms	2 pints	Do not apply to squash unless plants dry.
	Cucumber beetles, Squash vine borers	3 pints	
Strawberries [3]	Aphids, spider mites	1½ pints	
	Field crickets, Lygus bugs, Spittlebugs, Thrips	1½ - 3 pints	<u>]</u>
· · · · · · · · · · · · · · · · · · ·	Potato leafhoppers, Strawberry leaffollers, Strawberry root weevils, Whiteflies	1½ - 2½ pints	v-
Sweet Com [5]	Japanese beetles	2 pints	
Sweet Potatoes [3]	Leafhoppers	1 1/2 - 2 pints	
	Morninglory leaf miner	21/2 - 3 pints	<u> </u>
Tomatoes [3]	Aphids, Spider mites	1½ pints	Do not apply within 1 day of harvest spider mite control.
	Drosophila	21/2 pints	_
	Armyworms, Fruitworms (CA only)	2 pints	
Turnips [7]	Aphids, Cabbage loopers, Imported cabbageworms	1 - 2 pints	For control of caterpillars on summer a fall plantings in the South, begin wh true leaves appear. On other plantin and for control of other insects, be

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Note: The preh	VEGETABLES GROWN IN COMMERCI arvest interval (PHI) days are indicated in [] after of		
CROP	PESTS	RATE OER 100 GALS.	REMARKS
Beans [1]	Aphids, Cucumber beetles, Leafhoppers, Spider mites	1½ - 2 pins	Spray plants thoroughly.
Cucumbers [1]	Aphids, Armyworms, Cabbage loopers, Earwigs, Garden fleahoppers, Mealybugs, Spider Mites, Thrips, Whiteflies	1½ - 2 pins	Spray plants thoroughly. Do not apply unless plants are dry.
Eggplant [3]	Aphids, Spider mites	11/2 - 2 pints	Spray plants thoroughly.
Endive [7]	Aphids, Armyworms, Cabbage loopers Serpentine leaf miners, Thrips, Whiteflies	1½ - 2 pins	
Head Lettuce [7] and Leaf Lettuce [14]	Aphids, Amyworms, Cabbage loopers, Scrpentine leaf miners, Thrips, Whiteflies	1½ - 2 pints	
Onions [3]	Thrips	1½-2 pins	
Peppers [3]	Aphids	11/2 - 2 pittes	
Tornatoes [1]	Aphids, Armyworms, Cabbage loopers, Cutworms, Drosohpila, Garden fleahoppers, Mealybugs, Serpentine leaf miners, Spider mites, Thrips, Tomato russet mites, Whiteflies	1½ • 2 pinz	

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1101	e: The preharvest interval (PHI) days are in	APPLICATION	
an an	DECTO	\$	
CROP	PESTS	RATE	REMARKS
Apricots [7]	Aphids, Codling moths, European fruit lecanium.	1 1/2 - 2 pts/100 gals.	The rate is based on a standard of 30
	Orange tortrix. Soft brown scales, Terrapin scales	ог	gailons per acre dilute spray for matur
		41/2 - 6 pts./acre	rees.
Avocado [7]	Greenhouse thrips, Latania scales, Omnivorous	1's pis/100 gals, or	5 
	loopers, Orange tortrix, Soft brown scales	4!4 pts_/acre	(
Blackberry, Boysenberry, Current	Aphids, Rose scale chafers, Japanese beeules,	1 /2 pts/100 gals or	The rate is based on a standard of 20
Dewberry, Loganberry, Raspberry [1]	Leafhoppers, Mites, Thrips	3 pts./acre	gellons per acre dilute spray.
Blueberries [1]	Blueberry maggots	I pt/100 gals. or 3 pts./acre	For use in the Northeast only. Apply i 100 gallons of water per acre.
	Cherry fruitworm	l pt/100 gais.or	1
		2 pts_/acre	
	Cranberry fruitworm	1 pL/100 gals. cr	Make first application at egg hatch an
		2 pts./acre	repeat applications every 4 to 5 days unt a total of four applications has been made
	Japanese beetles	34 pt/100 gais. or	Make application when first berties tur
		1½ pts./acre	blue and at 10 day intervals as long a infestation persists.
	Note: The rates are based on a standard of 500 gallo	ons per acre dilute spray.	
Cherry [3]	Black cherry aphids, Fruit tree leafrollers	11/2 pts/100 gals_or	t
0		6 pts./acre	
	Cherry fruit flies, Japanese beetles	1 pt/100 gals. or	The rate is based on a standard of 40
		4 pts./acre	gallons per acre dilute spray for matur
			Do not apply more than 8 pounds of
•			actual Malathion 56 EC per acre to chern
			trees. Injury may occur on certain
			varieties of sweet chemies, particularly
		(	the Northwest.
Citrus (Grapefruit, Kumquat, Lemon,	Black scales (single and off-brooded), California	1 - 11/2 pts/100 gais.	Do not apply when trees are in bloom.
Lime, Orange, Tangerine, Tangelo) [7]	red scales, Citricola scales, Purple scales, Soft		
	brown scales, Yellow scales		
	Citrus red mites, Thrips	2½ pts./acre	Apply in 200 gallons of water per acr Do not apply when trees are in bloom.
	Florida purple scale, Florida red scale	2 pts/100 gals.	
	Note: The rates are based on a standard of 500 gallo		r mative trees
Currants, Gooseberries [3]	Japanese beetles	1½ pts/100 gais. or 3	The rates are based on a standard of 20
Carrenter, Construction [2]		DIS/acre	gallous per acre dilute spray.
	Rose chafers, Mites	1 pt/100 gals.	har mar about
•	TANK ATTACTA LETAN	or 2 pts./acre	
Figs [3]	Dried fruit beetles, Vinegar flies	2 gts/acre plus 1-2	
	Since that courses a model these	gals. of unsulfured	5
		moiasses	

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		APPLICATION	]
CROP	PESTS	RATE	REMARKS
Grapes [3]	Leafhoppers, Spider mites	1½ pts/100 gals. or 3 pts/acre	
	European fruit lecanium	1½ pts/100 gals.	Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom.
	Mealybugs	1½ pts./acre	Apply in 50 to 100 gallons.
	Note: The rates are based on a standard of 200 g Cardinal, Italia and Ribier varieties when sprays co	gallons per acre dilute spra ntaining Maizhion 56 EC :	y. Injury may occur on grapes of Almeria are applied after clusters appear.
Grape Vines (over-wintering stock only)	Grape phylloxera	3 pts./100 gals.	Remove excess soil from the roots and di in the Malathion 56 EC solution Submerge the entire root system for minutes. Keep the solution agitated at al times.
Guava [2]	Drosophila	I - 11/2 pts/acre	Apply in sufficient water to provide thorough coverage of the foliage.
Macadamia Nuts [0]	Green stink bugs	1½ pts_ 100 gais.	Apply when insects start to feed on the nuts and repeat as necessary. May be applied during harvest. No more than 12 pounds of actual Malathion 56 EC pe acre should be applied to macadamia nu trees.
Mango [2]	Drosophila	1 - 13. pt/acre	Apply in sufficient water to provid thorough coverage of foliage.
Nectarines [7]	Spider mites	1 - 2 pts. 100 gals. or 3 - 6 pts./acre	The rates are based on a standard of 300 gallons per acre dilute spray for mature trees.
	Plum curculio	2 pts./100 gals. or 6 pts./acre	Malathion 56 EC may cause fruit spotting on nectarines.
Passion Fruit [0]	Drosophila	1 - 192 pt/acre	Apply in sufficient water to provid thorough coverage of foliage.
Papaya [0]	Aphids, Mealybugs	11/2 - 2 pm /100 gals.	
Peaches [7]	Black cherry aphids, Black peach aphids, European red mites, Green peach aphids, Rusty plus aphids, Japanese beetles, Spider mites	I pt/100 gals. or 3 pts/acre	The rates are based on a standard of 30 gallons per acre dilute spray for matur trees. Do not apply more than
,	Oriental fruit moths, Plum curculio	2 pts_100 gals. or 3 cts./acre	9 pounds of actual Malathion 56 EC pe acre to peach trees.
	Cottony peach scales, European fruit lecanium, Terrapin scales	2 pts./100 gals.	Make full coverage applications a completion of hatching, but the last o June.
Pecans [0]	Aphids, Spider mites. Walnut aphids	1½ - 2 pts/100 gals. or 7½ - 10 pts./acre	The rates are based on a standard of 50 gallons per acre dilute spray for matur trees 25 to 35 feet high.
	European red mite	1¼ pts/100 gals. or 6¼ pts/acre	Apply when buds begin to develop an repeat as necessary.
	Pecan nut casebearers. Walnut husk flies	1¼ pts_100 gals. or 6¼ pts_/acre	Apply after first generation of eggs begin to hatch.
Walnuts [0]	Aphids, European red mites, Walnut husk flies	<sup>1</sup> / <sub>2</sub> pt/100 gals. or 1 <sup>1</sup> / <sub>2</sub> - 3 pts/acre	Apply with conventional sprayer. For bai sprays, combine Staley's Sauce Base Nos 2 and 7 at the rate of 2 quarts per acr with Malathion 56 EC. Apply in 50 gallons of water per acre with an air carrier type sprayer.

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	FIELD CROPS AND PASTURE/R Note: The preharvest interval (PHI) days are in		ach crop.
CROP	PESTS	RATE PER ACRE	REMARKS
Alfalfa [0]	Alfalfa weevil larvac, Aphids, Grasshoppers, Lygus bugs, Potato leafhoppers, Spider mites, Spittlebugs, Stink bugs	1½ - 2 pints	Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not
	Armyworms	2 piats	hanging on outside of hives.
	Clover leaf weevils	11/2 pints	
	Vetch bruchid	2 - 2½ pints	
Clover [0]	Alfalfa weevil larvae, Aphids, Grasshoppers, Lygus bugs, Potato leafhoppers. Spider mites, Spittlebugs	1½ pints	Do not apply to clover in bloom.

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Page	7	of	8
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CROP	PESTS	RATE PER ACRE	REMARKS
Corn (Grain or Forage) [5]	Aphids, Corn earworms, Corn rootworm adults, Grasshoppers, Sap beetles, Thrips	1½ pints	For control of com earworm and sap beetles, begin treatments when 10% of the ears show silk. Repeat applications at 3 to 5 day intervals until 4 to 5 applications have been made.
	Armyworms	1 ½ - 2 pints	· · · · · · · · · · · · · · · · · · ·
Cotton [0]	Brown cotton leafworms, Cotton aphids, Cotton leafworms, Cotton leafperforators, Desert spider mites, Leafhoppers, Lygus bugs, Thrips, Whiteflies	1½ - 2 pints	
	Boll weevils	2 - 4 pints	-1
	Cotton fleahoppers	I - 1½ pints	-
	Fail armyworms, Garden webworms, Grasshoppers	11/2 - 3 pints	
	Lygus bugs, Thrips	I - 4 pints	
Flax [45]	Grasshoppers	I pint	Limited to one application per season. Do not graze or feed forage to livestock
Grasses (Barnyardgrass, Canarygrass, Fescue, Orchardgrass, Red Top, Timothy, Yellow Foxtail) [0]	Cereal leaf beetle	I - 1½ pints	May be applied on the day of grazing.
:spedeza [0]	Grasshoppers	11/2 - 2 pints	
Lupine [0]	Grasshoppers	1½ - 2 pints	
Pasture and Range Grass, Grass and Grass Hay [0]	Aphids, Grasshoppers, Leafhoppers	1½ - 2 pints	May be applied at the rate of 1½ pirr in 1 gallon of diesel fuel oil per acre.
	Armyworms	2 pints	7
Popcorn [5]	Aphids, Corn rootworms, Grasshoppers, Spider mites, Thrips, Corn earworms	1½ pint	Note: Injury may occur in whorl and silk stages with Malathion 56 EC,
	Armyworms	11/2 - 2 pints	especially at low dilution rates.
Salsify [7]	Aphids, Diamondback moths, Flea beetles, Leaf hoppers, Spider mites, Thrips	1½ - 2 pints	
Small Grains (Barley, Oats, Rye, Wheat) [7]	Cereal leaf beetles	1 - 1½ pint	Do not apply within 7 days of forage zse.
- · · <b>T</b>	English grain aphids, Grasshoppers, Greenbugs	1½ pint	<b>1</b>
	Winter grain mite	2 pints	<u> </u>
Grain Sorghum [7]	Greenbugs	1½ pint	Do not feed or graze forage, hay or straw to livestock.
Vetch [0]	Omnivorous leaf tiers, Pea aphids, Vetch bruchids	1½ - 2 pints	May be applied on the day of grazing

#### **RESIDUAL SPRAY**

efore storing grains (corn, barley, oats, rye and wheat): Before applying spray, thoroughly clean elevators, box cars. etc. 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 and before loading grain, make a thorough application at the rate of 1 pint in 2 to 5 gallons of water per 1000 bushels.

Warehouse (corn, barley, oats, rye and wheat): To kill Khapra beetles, dilute 8 pints per 20 gallons of water. Apply at the rate of 2 gallons per 1000 sq. ft. of surface or to the point of runoff. Thoroughly spray with sufficient pressure, interior of empty warehouse including cracks and protected places.

# FLY AND MOSQUITO CONTROL

For Outdoor Use Only

Fly Control: For use around buildings which house domestic animals, around yards, homes and meat and food processing plants. <u>Adult Flies:</u> Straight sprays: 5 tablespoons plus 1 gallon water, or 1 cup plus 2½ gallons water, of 1 quart plus 12 gallons water. Apply as a spray at the rate of 1 gallon per 1000 sq. ft. on painted surfaces and 2 gallons per 1000 sq. ft. on unpainted surfaces where flies alight or congregate, such as fences, around garbage cans, etc.

Mosquito Control: <u>Mosquito Larvae</u>: 13 fl. oz. per acre. For use only in standing water (intermittently flooded areas, stagnant water, temporary rain pools). 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. Mix in sufficient water or oil when applied by air or ground equipment. <u>Mosquito Adults</u>: 1 part to 28 parts ware, fuel oil or diesel oil. Spray building foundations, shrubs, low trees and lawn areas.

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#### OUTDOOR ORNAMENTALS

Flowers, Shade Trees, Shrubs: Injury may occur on Ferns, Hickory, Viburnum, Lantana, Crassula and Canareti Juniper following the use of this product. Slight injury has also been reported on Boston, Ptseris 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.

PESTS	APPLICATION RATE
Lace bugs, Oyster shell scales	1 pint/100 gallons
Note: Apply when Oyster shell scale crawlers have settled on foliage.	or 2 tsp./ gallon
Aphids, Euonymous scales, European pine shoot moths, Four-lined leaf bugs, Japanese	11/2 pint/100 gallons
beetles (adult), Mealybugs, Potato leafhoppers, Rose leafhoppers, Scurfy scales, Spider mites, Tarnished plant pubs, Thrips, Whiteflies	or 2 tsp./gallon
Azalea scales, Bagworms, Birch leaf miners, Boxwood leaf miners, Fletcher scales, Florida	2 pints/100 gallons
red scales, Juniper scales, magnolia scales, Oak kemes, Pine leaf scales, Tent caterpillars	or 2 tsp./gallon
Note: Apply when Fletcher, Juniper and Oak kemes scale crawlers have settled on foliage.	
Black scale crawlers, Soft brown scales	2¼ pints/100 gallons or 2 tsp./gallon
Monterey pine scales	21/2 pints/100 gallons or 2 tsp./gallon
Pine needle scales, wax scales	4 pints/100 gallons
ote: For wax scales, apply in spring when crawlers are active; repeat 1 or 2 full-coverage applications at 10 day intervals.	or 4 tsp./gallon

### IN AND AROUND GREENHOUSES AND GARDENS

Beans, Cucumbers, Eggplant, Endive, Head lettuce, Leaf Lettuce, Onions, Peppers, Tomatoes; and ornamental Flowering Plants, Nursery Stock and Woody Plants: To kill Millipedes, Sawbugs and Springtails, mix 1 teaspoon of this product per gallon of water. Apply to 150 square feet of soil surface or where insects congregate. Repeat at 7 to 10 day intervals as needed.

Lawns: For ant mounds, mix 1½ pints of this product per 100 gallons of water. Spray ant hills thoroughly so that they are well soaked. For other small ants in flower beds, lawns and around trees, lightly spray the infested areas. Repeat in 10 to 15 days if ants return.

Ground Pearls: Mix 3 to 4 quarts of this product per 100 gallons of water. 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

Drosophila flies, Dried fruit beetles: Mix 1½ gallons of this product per 100 gallons of water. Apply as a drench using 8 to 10 gallons of spray per 100 sq. ft. For best results, dumps should not be over 18 inches deep. DO NOT FEED TREATED FRUIT AND VEGETABLES.

#### CONDITIONS OF SALE AND WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MARMAN USA, INC. or the Seller. All such risks shall be assumed by the Buyer.

MARMAN USA, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the *Directions for Use* subject to the inherent risks referred to above. MARMAN USA, INC. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall MARMAN USA, INC. or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. MARMAN USA, INC. and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing *Conditions of Sale and Warranty*, which may be varied only by agreement in writing signed by a duly authorized representative of MARMAN USA, INC.