



655-777 7/1/94
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Mr. Richard A. Miller
President
Prentiss Incorporated
C.B. 2000
Floral Park, N.Y. 11002-2000

Dear Mr. Miller:

Subject: Deletion of Malathion Uses
EPA Reg. No. 655-777
Your Application of June 28, 1994

Your request for deletion of uses was found to be in compliance with PR Notice 91-1 and has been forwarded for publication in the Federal Register in accordance with the procedures described in that Notice.

Our review of your proposed labeling indicates that the following corrections are required. Submit 5 copies of your corrected labeling within 60 days of this letter.

1. Under "Fly and Mosquito Control", delete the words "in and" which appears in the sentence, "For use in and around buildings___".

2. Also, under this same heading, delete all statements which imply indoor use. i.e. "Do not use in edible products areas of ___". Do not use in serving areas while food is exposed. "Remove lactating dairy animals from buildings before treating. Also remove animals under one month of age before treating."

3. Malathion products labeled for use on aquatic use sites, must bear the label restriction cited below. Refer to the 1988 Malathion Reregistration Standard, footnote numbers 164 and 165 of the Residue Chemistry Generic Data Requirement Table (page 114). This restriction is being required in lieu of conducting residue chemistry studies under 171-4 (Magnitude of the Residue in Fish and Shellfish and Magnitude of the Residue in Drinking and Irrigation Water) and applies to all aquatic use sites appearing on your label.

"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."

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4. Malathion products labeled for use on the agricultural crops, beans, peas, lentils, cotton, and grain sorghum require a restriction prohibiting the grazing/feeding of the treated crop foliage (bean and pea vines/forage and straw/hay, sorghum forage, fodder/straw and hay, lentil forage and hay, and cotton forage) by livestock.

This restriction is being required in lieu of providing the appropriate supporting residue chemistry studies under 171-4 (Magnitude of the Residue in Plants) as required under the Malathion Reregistration Standard, February 1988.

5. Your proposed labeling also included the additional uses on pine seed orchards, Christmas tree plantations, nursery stock and ornamental lawns and turf. The following additional information is needed to complete our processing of your request to add the additional uses to the subject product label.

a. As stated in our letter of April 11, 1994, appropriate use directions must be included on your label for these added uses. While the current use directions for flowers, shade trees and shrubs may be appropriate for the uses such as ornamental nursery stock, or pine seed orchards, it would not be appropriate for use on turf sites such as sod farms, golf courses or lawns.

b. The product specific data requirements must be adequately addressed to support the additional uses. The July 8, 1994 letter received from your supplier specifically referenced your pending new product, Prentox Malathion 57% EC (assigned EPA File Symbol 655-TOU) and not the subject product. Refer to our letter for 655-GOU for comments regarding the referenced studies.

Please refer to the attached sheet which was attached to our previous letter of April 11, 1994 regarding the information needed to satisfy the product-specific data requirements when proposing additional use sites.

When submitting your corrected use deletion label, it is recommended that you submit the label without your proposed additional uses on it. This would facilitate our processing of the corrected use deletion label and enable us to stamp-accept it once the comment period has passed.

Sincerely yours,

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7504C)

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(A)	<p>United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460</p>	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number <h2 style="text-align: center;">195082</h2>
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Section I		
1. Company/Product Number <p style="text-align: center;">655-777</p>	2. EPA Product Manager Robert Forrest	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Prentox ^R 5 Lb. Malathion Spray	PM# 14	
5. Name and Address of Applicant (Include ZIP Code) Prentiss Incorporated C.B. 2000 Floral Park, NY 11002-2000 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II	
<input checked="" type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Amendment to split 655-777 into commercial use and homeowner use only products. List of deleted uses attached. List of added uses attached.

Section III					
1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container		
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other (_____)		

Section IV		
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Richard A. Miller	Title President	Telephone No. (Include Area Code) (516) 326-1919

Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Richard A. Miller	5. Date 6/28/94	

4/12

Prentox[®] 5 Lb Malathion Spray
EPA Registration No. 655-777
Amendment - OPP ID #195082

Additional Uses Deleted:

Apples
Pears
Quince

Uses Added:

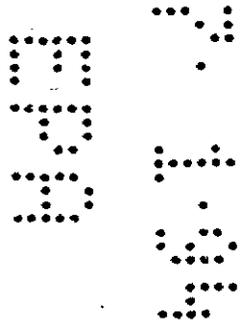
Pine seed orchards
Christmas tree plantations
Nursery Stock
Ornamental lawns & turf

working copy

OPP ID #195082

5/12

revisions needed / means





KEEP THIS BOOKLET WITH CONTAINER AT ALL TIMES

5 LB. MALATHION SPRAY

ACTIVE INGREDIENTS:
 Malathion 0,0-dimethyl phosphorodithioate
 of diethyl mercaptosuccinate 57.0%

INERT INGREDIENTS: 43.0%

Contains Xylene Range Aromatic Solvent TOTAL: 100.0%

PRENTOX® — Registered Trademark of Prentiss Incorporated

KEEP OUT OF REACH OF CHILDREN

WARNING-AVISO

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

STATEMENT OF PRACTICAL TREATMENT
ORGANOPHOSPHATE

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 victim to fresh air. Apply respiration, if indicated. If on skin — Wash area immediately with soap and warm water. If in eyes — Flush with plenty of water and get prompt medical attention.

Please refer to additional precautionary statements and environmental hazards inside booklet.

Manufactured By 01/84 EPA Reg. No. 655-777
EPA EST. No. 655-GA-1

PRENTISS INCORPORATED Plant: Kaolin Rd., Sandersville, GA 31082
Office: C. B. 2000, Floral Park, NY 11001

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

Including ornamental flowering plants, ornamental lawns and turf, ornamental nursery stock, ornamental woody plants, pine seed orchards, and uncultivated non-agricultural areas, and Christmas tree plantations.

<ul style="list-style-type: none"> Carpet beetles Cigarette beetles Clover mites Confused flour beetles Crickets Drug store beetles Earwigs Flat grain beetles Granary weevils Indian meal moths Red flour beetles Rice weevils Roaches Rusty grain beetles Saw-toothed grain beetles Silverfish Spiders 	<p>10 parts mixture of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon-type solvent.</p>	<p>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.</p>
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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
<ul style="list-style-type: none"> Ants Carpet beetles Cigarette beetles Clover mites Confused flour beetles Crickets Drug store beetles Earwigs Flat grain beetles Granary weevils Indian meal moths Red flour beetles Rice weevils Roaches Rusty grain beetles Saw-toothed grain beetles Silverfish Spiders 	<p>1 pt./2½ gal OR 1 part in 19 parts mixture of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon-type solvent.</p>	<p>Apply as a coarse spray to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter. Repeat application as necessary. Application must be made only by a commercial pest control operator.</p>

KEEP THIS BOOKLET WITH CONTAINER AT ALL TIMES

5 LB. MALATHION SPRAY

ACTIVE INGREDIENTS:
 Malathion 0,0-dimethyl phosphorodithioate 57.0%
 Diethyl mercaptosuccinate 43.0%
TOTAL: 100.0%

INERT INGREDIENTS:
 Methyl Xylene Range Aromatic Solvent 100.0%

MALATHION® - Registered Trademark of Prentiss Incorporated

KEEP OUT OF REACH OF CHILDREN

WARNING-AVISO

If you do not understand this label, find someone to explain it to you in detail.

STATEMENT OF PRACTICAL TREATMENT ORGANOPHOSPHATE

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 victim to fresh air. Apply respiration, if indicated. If on skin - Wash area immediately with soap and warm water. If in eyes - Flush with plenty of water and get prompt medical attention.

Manufactured by **PRENTISS INCORPORATED** Plant: Kaolin Rd., Sandersville, GA 31082
 Office: C. B. 2000, Floral Park, NY 11001

EPA Reg. No. 655-777
 EPA EST. No. 655-GA-1

PULL HERE TO OPEN
PRESS TO RESEAL

EPA Reg. No. 655-777
EPA EST. No. 655-GA-1
Prentiss Incorporated
Kaolin Rd., Sandersville, GA 31082
C. B. 2000, Floral Park, NY 11001

Fleas	Ticks	Premises treatments	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.
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OUTDOOR ORNAMENTALS

owers, Shade Trees, Shrubs
 Injury may occur on Ferns, Hickory, Viburnum, Lantana, Crassula and Canaret Juniper following the use of PRENTOX 5 LB MALATHION SPRAY, 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 adverse conditions the emulsifiable concentrates may cause slight damage to elms.

Pest	Rate	Remarks
Aphids	1½ pts. per 100 gal OR 2 teaspoons per gal	
Spider Mites	2 pts. per 100 gal OR 11	
Bagworms	2 pts. per 100 gal OR 11	
Birch leaf miner	2 teaspoons per gal	
Boxwood leaf miner		
European pine shoot moth	1½ pts per 100 gal. OR 2 teaspoons per gal	
Four-lined leaf bug		
Japanese beetle adult		
Potato leafhopper		
Rose leafhopper		
Tarnished plant bug		
Thrips		
Lace bug	1 pts. per 100 gal OR 2 teaspoons per gal	
Mealybugs	1½ pts per 100 gal OR 2 teaspoons per gal	
Whiteflies		
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	1½ pt per 100 gal OR 2 teaspoons per gal	
Scurfy scale		
Azalea scale	2 pts per 100 gal OR 2 teaspoons per gal	
Magnolia scale		
Pine leaf scale		
Fletcher scale	2 pts per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settled on foliage.
Florida red scale	2 pts per 100 gal OR 2 teaspoons per gal	Apply when scale crawlers have settle on foliage.
Juniper scale		
Black scale crawlers	2½ pts per 100 gal OR 2 teaspoons	
Soft brown scale		
Monterey pine scale	2½ pts per 100 gal OR 2 teaspoons per gal	
Pine needle scale	4 pts per 100 gal OR 4 teaspoons per gal	
Wax scale	4 pts per 100 gal OR 4 teaspoons per gal	Apply in spring when crawlers are active. Repeat 1 or 2 full-coverage applications at 10-day intervals.

FOREST TREES

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

Including ornamental flowering plants, ornamental lawns and turf, ornamental nursery stock, ornamental woody plants, pine seed orchards, and uncultivated non-agricultural areas, and Christmas tree plantations.

Do not allow children in treated areas until surface is dry.

ON AND AROUND CULL FRUIT AND VEGETABLE DUMPS

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

IN AROUND WINERIES AND PROCESSING PLANTS

Pest	Rate	Remarks
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 MILK

Pest	Rate	Remarks
Black carpet beetles	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.
Trogoderma species		

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

CRACK AND CREVICE TREATMENT IN FOOD HANDLING ESTABLISHMENTS

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

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

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

KEEP THIS BOOKLET WITH CONTAINER AT ALL TIMES

5 LB. MALATHION SPRAY

PULL HERE TO OPEN
PRESS TO RESEAL

FIELD CROPS AND PASTURE AND RANGE GRASSES (Cont'd.)

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Grasses (Barnyardgrass, Canarygrass, Fescue, Orchardgrass, Red top, Timothy, Yellow foxtail)	Cereal leaf beetle	1-1½ pts.	May be applied on the day of harvest or grazing.
Pasture and Range Grass, and Grass Hay	Aphids Grasshoppers Leafhoppers	1½-2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	May be applied on the day of harvest or grazing.
	Armyworms	2 pts. OR 1½ pts. in 1 gal. of diesel fuel oil per acre	
Peanuts	Potato leafhoppers Thrips	1½ pts.	May be harvested or grazed on the day application.
Safflower	Aphid Grasshoppers Lygus bugs	1½ pts.	Do not apply within 3 days of harvesting seeds.
Small Grains (Barley, Oats, Rye, Wheat)	Cereal leaf beetle	1-1½ pts.	Do not apply within 7 days of harvest or forage use.
	English grain aphids Grasshoppers Greenbugs	1½ pts.	
	Winter grain mite	2 pts.	
Sorghum	Greenbugs	1½ pts.	Do not apply within 7 days of harvest or forage use.
Soybeans	Green-cloversworms Mexican bean beetle	3 pts.	May be applied on the day of harvest or forage use.
Sugar beets	Aphids Spider mites	1½-2 pts.	Do not apply within 7 days of harvest if tops are to be used as feed or forage.
	Grasshoppers	3 pts.	
Tobacco	Aphids	1½-2½ pts.	May be applied on the day of harvest. Use maximum dosage in plant beds.
Vetch	Omnivorous leaf tier Pea aphid	1½-2 pts.	May be applied on the day of harvest or grazing.
	Vetch bruchid		

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 through of trash and remains of old peanuts 1 to 2 weeks before new peanut crop is stored. Then, thoroughly spray the interior of the empty warehouse, especially cracks and protected places. Treat outside walls to a height of 6 to 8 feet and the ground to a distance of 6 feet from the warehouse.
		2½ pts. in 5 gal. of water for each 15 tons of farmers stock peanuts.	Bulk Spray Treatment-Peanuts Going into Storage: Use good spray equipment. Apply coarse spray uniformly. Preferably, use a suitable mechanical spray applicator that regulates the rate of application to the flow of peanuts. Adjust the operating pressure of spray pump and size of nozzle opening to correlate the amount of spray delivery with the rate of flow of peanuts being treated. Avoid spraying with a fine mist that drifts away, by using low nozzle pressure. Shield the nozzle against wind and air currents.

SUPPLEMENTAL SURFACE SPRAY: After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1½ pts. in 2 gallons of water and apply at the rate of 2 gallons per 1000 square feet of surface. Apply first treatment as soon as bin is filled and leveled, but not later than the first week in October. Apply the second treatment 1 month later, followed by treatment at 2-month intervals. Use a piston type power sprayer equipped with agitator and nozzle capable of delivering a coarse spray. Repeat surface application 60 days later if warm temperatures prevail. Otherwise delay further treatment until late winter.

Site	Pests Controlled	Rate	Directions For Use
Nonmedicated cattle feed concentrate blocks	Cigarette beetles	8 pts. in 25 gal. water	Before storing feed blocks thoroughly clean storage areas and remove and burn all debris and sweepings. Apply as a thorough application for a residual spray.
		4 fl. oz. in 1 qt. water	Treat paper on the side next to the feed concentrate at a rate of 100 mg./sq. ft. or 1 qt. of diluted Prentox 5lb. Malathion Spray per 710 sq. ft.
Bagged citrus pulp Residual warehouse spray	Almond moth Angoumois grain beetle Cigarette beetle Confused flour beetle Flint 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.
Stored Grains (Barley, corn, grain sorghum, oats, rice, rye, wheat) and field or garden seeds	Do not use treated burlap bags other than for dried citrus pulp.		
Stored Grains (Barley, corn, grain sorghum, oats, rice, rye, wheat) and field or garden seeds	Cereal leaf beetle Confused flour beetle Flat grain beetle Granary weevil Indian meal moth Lesser grain borer Maize weevil Red flour beetle Rice weevil Rusty grain beetle	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 elevators in treating truck beds, box cars and ships.

FLY AND MOSQUITO CONTROL

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

Pests Controlled	Rate	Directions For Use
Adult flies	Straight Sprays: 5 Tablespoons + 1 Gal water OR 1 cup + 2½ gal water OR 1 quart + 12 gal water.	Apply as a spray at the rate of 1 gallon per 1,000 sq. ft. on painted surfaces and 2 gals per 1,000 sq. ft. on unpainted surfaces where flies alight or congregate such as walls, ceiling, eleanohium, windows-in-dairy barns, fences, round 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 dropping-in-loading sheds, spray the dry bedding within 18 inches of the walls and around upright braces. For effective control in and around dairy barns, fly-breeding sites such as manure and other waste material, should be eliminated. Do not apply to freshly whitewashed surfaces. Wait 14 days after whitewashing before applying.
Repeat applications as necessary. Avoid contamination of milk, milk equipment and water. Avoid contamination of feed and food products, also drinking fountains and feed troughs. Remove lactating dairy animals from buildings before treating. Also remove animals under one month of age before treating. Avoid applying oil-based formulations to valuable ornamental plants as injury may occur.		
Mosquito larvae	13 fl. oz. per acre	For use in standing water (intermittently flooded areas, stagnant water, temporary rain pools). Mix in sufficient water or oil when applied by air or ground equipment.
Mosquito adults	1 part to 28 parts water, fuel oil or diesel oil.	Spray building foundations, shrubs, low trees and lawn areas.

Example: use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or commercially harvested.

LIVESTOCK PEST CONTROL

Animal	Pest	Rate	Remarks
Hogs	Lice	1 gal. per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray to animals, pens and litter. One treatment may be sufficient. Repeat only if needed.
	Sarcoptic mange	1 gal. per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray to all animals in herd, bedding and walls. Use extreme care to thoroughly cover all body surfaces of the animal, including inside of ears. One thorough spraying will usually control sarcoptic mange of swine, however, extensive cases will require second treatment about 10 days after first application. After spraying, swine should be kept out of sun and wind for a few hours. Residue tolerance: 4 ppm in meat, fat, and meat by-products. Avoid contamination of feed, food containers and watering troughs.
Sheep and Goats	Lice Ticks Keds	1 gal. per 100 gals of water OR 6½ ozs per 5 gals of water.	Spray animals thoroughly. Repeat application after 2 or 3 weeks if needed. Do not apply to milk goats. Do not treat animals under one month of age. Residue tolerance: 4 ppm in meat, fat and meat by-products.
Horses, beef and non-milking cattle	Lice	1 gal. per 100 gals of water OR 6½ ozs per 5 gals of water.	Apply complete coverage spray. One treatment may be sufficient. Repeat only if needed. BACK-RUBBING DEVICES: To reduce lice apply a mixture of 2% Malathion using Prentox 5 lb. Malathion Spray in fuel oil. There may also be a reduction in hornflies. These devices should be made continuously accessible, one to each 35-45 head of cattle. Back-rubbing devices must be retreated every 2 to 3 weeks.
	Ticks	1-2 gals per 100 gals of water OR 6½-13 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed.
	Hornflies	1-1½ gals per 100 gals of water OR 6½-10 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed. Do not apply to lactating dairy animals, or nonlactating dairy animals within 2 weeks of freshening. Do not treat animals under one month of age. Residue tolerance: 4 ppm in meat, fat and meat by-products.
Poultry: Chickens, Ducks Geese, Turkeys	Northern fowl mite Poultry lice Chicken red mite	2 lbs per 1 gal water per 100-105 birds	Repeat application in 4-8 weeks or when necessary. As a supplement to premise treatment for chicken red mite.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS. WARNING May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Causes eye irritation. Do not get in eyes, on skin or on clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans. Do not permit children or pets to go onto the sprayed grass until spray has completely dried. **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, and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Pests Controlled	Rate/100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest	
Budmoth Forbes scale Woolly apple aphid	1 pt.	4 pts.	Do not apply within 3 days of harvest.	
Eastern tent caterpillar	1-1½ pts.	4-6 pts.		
Green apple aphid Rosy apple aphid	1½ pts.	6 pts.		
Codling moth Plum curculio Red-banded leafroller	2 pts.	8 pts.		
Mealybug Mites, such as Clover mite, European red mite, Two-spotted spider mite, Willamette mite Red Apple Aphid	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. PRENTOX 5 lb. Malathion Spray may cause fruit injury to McIntosh and Cortland varieties if spray is applied within 4 weeks of harvest.				
Aphids Mites Red-banded leafrollers	1 pt. + 1 gal. superior oil	—		Make full coverage dormant or delayed dormant applications only.
Aphids Codling moth European fruit lecanium Orange tortrix Soft brown scale Terrapin scale	1½-2 pts.	4½-6 pts.		Do not apply within 7 days of harvest.
The rate for use on apricots is based on a standard of 300 gallons per acre dilute spray for mature trees.				
Greenhouse thrips Latania scale Omnivorous looper Orange tortrix Soft brown scale	1½ pts.	7½ pts.		Do not apply within 7 days of harvest.
The rate for use on avocado is based on a standard of 500 gallons per acre dilute spray for mature trees.				
Aphids Rose scale chafers Japanese beetle Leafhoppers Mites Thrips	1½ pts.	3 pts.	Do not apply within 1 day of harvest.	
The rates for use on brambles are based on a standard of 200 gallons per acre dilute spray.				
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 pt.	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	¾ pt.	1½ pts.	Make application when first berries turn blue and at 10 days intervals as long as infestation persists. Do not apply within 1 day of harvest.	
The rates for use on blueberries are based on a standard of 200 gallons per acre dilute spray.				
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.		
The rates for use on cherries are based on a standard of 400 gallons per acre dilute spray for mature trees. Do not apply more than 8 lbs. of actual MALATHION per acre to cherry trees. Injury may occur on certain varieties of sweet cherries, particularly in the Northwest.				
Black scale (single and off-brooded) California red scale Citricola scale Purple scale Soft brown scale Tangelo	1-1½ pts.	—	Do not apply when trees are in bloom. Do not apply within 7 days of harvest.	
Florida purple scale Florida red scale	2 pts.	—		
Citrus red mites Thrips	—	2½ pts.	Apply in 200 gallons of water per acre. Do not apply when trees are in bloom. Do not apply within 7 days of harvest.	
The rate for use on citrus is based on a standard of 500 gallons per acre dilute				

Crop	Pests Controlled	Rate/100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Peaches	Black cherry aphid Black peach aphid European red mite Green peach aphid Rusty plum aphid Japanese beetle Spider mites	1 pt.	3 pts.	Do not apply within 7 days of harvest.
	Oriental fruit moth Plum curculio	2 pts.	3 qts.	
	Cottony peach scale European fruit lecanium Terrapin scale	2 pts.	—	Make full coverage applications at completion of hatching, about the last of June. Do not apply within 7 days of harvest.
	The rates for use on peaches are based on a standard of 300 gallons per acre dilute spray for mature trees. Do not apply more than 8 pounds of actual MALATHION per acre to peach trees.			
	Aphids	1 pt.	3 pts.	Do not apply within 1 day of harvest.
	Mealybug Mites Pear psylla	1-2 pts.	3-6 pts.	
	Codling moth Fruit-tree leafroller Plum curculio Red-banded leafroller	2 pts.	6 pts.	
	The rates for use on pears are based on a standard of 300 gallons per acre dilute spray for mature trees. Injury may occur under certain conditions in the Northwest on Bosc pears.			
	Aphids Spider mites Walnut aphid	1½-2 pts.	7½-10 pts.	May be applied on the day of harvest.
	Pecan Phylloxera	1½ pts.	6½ pts.	Apply when buds begin to develop and repeat as necessary. May be applied on the day of harvest.
Pecan nut case-bearer, Walnut husk fly	1½ pts.	6½ 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	1-1½ pts.	3 pts.	Do not apply within 3 days of harvest. Make full coverage applications to trunks and scaffold limbs 4 times at 21-day 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.
	The rates for use on plums and prunes are based on a standard of 300 gallons per acre dilute spray for mature trees.			
Quince	Codling moth Oriental fruit moth Plum curculio	2 pts.	6 pts.	Do not apply within 3 days of harvest.
	Spider mites	1-2 pts.	3-6 pts.	
	Forbes scale	1 pt.	—	Make full coverage applications when crawlers are present, about first or second cover and last half of July. Do not apply within 3 days of harvest.
	The rates for use on quince are based on a standard of 300 gallons per acre dilute spray for mature trees.			
Walnuts	Aphids European red mite Walnut aphid	¼ pt.	1½-3 pts.	May be applied on the day of harvest.
	Walnut husk fly	¼ pt.	1½-3 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 MALATHION. May be applied on the day of harvest.
			3-4 pts.	Apply in 500 gallons of water per acre with air-carrier type sprayer. For bait sprays, combine Staley's Sauce Base No. 2 or No. 7 at the rate of 2 qts. per acre with MALATHION. May be applied on the day of harvest.

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Harlequin cabbage bug	1 pt.	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 Pickeworms Spider mites	1½-2 pts.	Do not apply to cucumbers unless plants are dry. Do not apply within 1 day of harvest.
	Squash vine borer	3 pts.	
	Cucumber beetle Leaf miner	2 pts.	
Dandelion, Parsley, Parsnip, Swiss Chard, Watercress	Aphids	1½-2 pts.	Do not apply within 21 days of harvesting parsley or within 7 days of harvesting dandelion, parsnip, Swiss chard or watercress.
Eggplant	Aphids Spider mites	1 pt.	Do not apply within 3 days of harvest.
	Lacebugs	3 pts.	
Endive	Aphids Spider mites	1½-2 pts.	Do not apply within 7 days of harvest.
Garlic, Shallots	Aphids Thrips	1½-2 pts.	Do not apply within 3 days of harvest.
Hops	Aphids Spider mites	1 pt.	Do not apply within 10 days of harvest.
Kale	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	Do not apply within 7 days of harvest. For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Webworm Diamondback moth	2 pts.	
Kohlrabi	Aphids	1-2 pts.	Do not apply within 7 days of harvest.
	Cabbage looper Diamondback moth Imported cabbageworm, Webworm	2 pts.	
Leeks	Aphids	1½-2 pts.	Do not apply within 3 days of harvest.
	Onion maggot flies	2½ pts.	
	Thrips	3 pts.	
Lentils	Cowpea aphid Pea aphid	1½ pts.	Do not apply within 3 days of harvest.
Lettuce	Aphids Leafhoppers Spider mites	2 pts.	Do not apply within 7 days of harvesting head lettuce or within 14 days of harvesting leaf lettuce.
	Cabbage looper	3 pts.	
Melons (Cantaloupe, Casaba, Crenshaw, Honeydew Melons, Honey Balls, Muskmelons, Persian Melons and hybrids of these, Watermelons and their hybrids)	Aphids Spider mites	1½-2 pts.	Do not apply to melons unless plants are dry. Do not apply within 1 day of harvest.
	Cucumber beetles	2-3 pts.	
	Leaf miners	2 pts.	
	Leafhoppers Pickeworms	1½-2 pts. 2 pts.	
	Squash vine borer	3 pts.	
Mushrooms	Mites Phorid and Sclerid flies	2½ pts. in 130 gallons of water; or 2 tablespoons in 3 gallons of water per 1000 sq. ft. of bed	Make thorough applications as soon after picking as possible. Repeat applications as necessary, usually twice a week. Do not apply within 1 day of harvest.
Mustards GREENS	Aphids Cabbage looper Imported cabbageworm	2 pts.	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear. Do not apply within 7 days of harvest.
	Flea beetles	1½-2 pts.	
Okra	Aphids	1½-2 pts.	Do not apply within 1 day of harvest. Make no application after pods start to form.
	Japanese beetle	2 pts.	

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	Drosophila	2½ pts.	of harvest. 10/12
	Spider mites	1½ pts.	
	Armyworms Fruitworms (California only)	2½ qts.	Do not apply within 3 days of harvest.
Turnip	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear. Do not apply within 7 days of harvest if tops are to be used for food or feed.

VEGETABLES GROWN IN COMMERCIAL GREENHOUSES: Apply to give complete coverage

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

FRUIT AND NUT

Crop	Pests Controlled	Rate/100 gals.	Rate/A	Interval (Days) Between Last Application and Harvest
Almonds	Aphids moth Spider mites	1-2 pts.	2-4 pts.	May be applied on the day of harvest.
	Peach twig borer	1-1½ pts.	2-3 pts.	Apply during the petal fall period or during the period appropriate for spraying larvae of the May brood. May be applied on the day of harvest.

The rates for use almonds are based on a standard of 200 gallons per acre dilut spray for mature trees. Do not apply more than 8 lbs. actual MALATHION per acre to almond trees.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.
STORAGE: Store in cool, dry area. If container is damaged, stop any leaks by repositioning the container or by patching or otherwise repairing the leaks. Take care to avoid contact with pesticides and wear protective gear. On cleanup of spilled liquids, wear protective equipment as required to prevent contact with the product or its vapors. Cover the spilled area with generous amounts of absorbent material, such as dry, atomized earth, sand or sawdust. Sweep the contaminated absorbent onto a shovel and put the sweepings into a salvage drum. Apply liquid household bleach to contaminated area. Scrub thoroughly using long handled brush. Let stand for 15 minutes. Wash area thoroughly with water. Place leaking container into a similar drum or glass container. Mark the container with name of product, ingredient statement, precautionary statements, and signal word. Contact us for replacement label. Do not store, use, pour or spit near heat or open flame.
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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
 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 the 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 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 workers 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, i.e. coveralls, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton, shoes plus socks, and protective eyewear.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.
 DO NOT ALLOW ANY CARPET CONTACT. MAY STAIN.

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

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Asparagus	Asparagus aphid	2 pts.	Do not apply within 1 day of harvest.
	Asparagus beetle		
	Thrips	1 1/2-2 pts.	
Beans (Green Beans, Lima Beans, Navy Beans, Red Kidney Beans, Snap Beans, Wax Beans, Cowpeas and Black-eyed Peas)	Aphids	2 pts.	Do not apply within 1 day of harvest.
	Brown long booties		
	Blister beetles		
	Cucumber beetles		
	Potato leafhoppers		
Dry Beans (California and Northwest only)	Lygus bugs	1 1/2-2 pts. (ground) 1 1/2 (air) in 10 gallons of water	Do not apply within 1 day of harvest.
	Japanese beetle	1 1/2-2 pts.	
	Mexican bean beetle	1 1/2 pts.	
Beets (Garden and Table)	Aphids	1 1/2-2 pts.	Do not apply within 7 days of harvest if tops are to be used as food or feed.
	Leafhopper		
Broccoli	Aphids Cabbage looper Imported cabbageworm	1-2 pts.	Do not apply within 3 days of harvest.
Brussels Sprouts	Aphids	1-2 pts.	Do not apply within 7 days of harvest.
Cabbage	Aphids	1-2 pts.	Do not apply within 7 days of harvest. For Control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Cabbage looper		
	Imported cabbageworm		
Carrots	Diamondback moth	2 pts.	Do not apply within 7 days of harvest.
	Webworm		
Cauliflower	Aphids	1 1/2-2 pts.	Do not apply within 7 days of harvest.
	Leafhoppers	2 1/2 pts.	
Celery, Anise	Aphids	1-2 pts.	To be applied to fresh leaves and stalks only. Do not use on crops grown for seed and oil. Do not apply within 7 days of harvest.
	Spider mites	1 1/2 pts.	
Collards	Aphids	1 1/2-2 pts.	Do not apply within 7 days of harvest. For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear.
	Harlequin cabbage bug	1 pt.	
Cucumbers	Aphids	1 1/2-2 pts.	Do not apply to cucumbers unless plants are dry. Do not apply within 1 day of harvest.
	Pickleworms		
	Spider mites		
	Squash vine borer	3 pts.	
Dandelion, Parsley, Parsnips, Swiss Chard, Watercress	Cucumber beetle	2 pts.	Do not apply within 21 days of harvest in parsley or within 7 days of harvesting in watercress.
	Leaf miner		

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VEGETABLES (Cont'd.)

Crop	Pests Controlled	Rate/A	Interval (Days) Between Last Application and Harvest
Onions (Bulb + Green)	Onion maggots	1 1/2-2 1/2 pts.	Do not apply within 3 days of harvest.
	Onion thrips	1 1/2-2 pts.	
Peas	Aphids	1 1/2-2 pts.	Do not apply within 7 days of harvest if vines are to be fed, or within 3 days of harvest if vines are not to be fed.
	Grasshoppers	2 pts.	
	Leafhoppers	1 1/2-4 pts.	
Peppermint, Spearmint	Aphids Flea beetles Leafhoppers Spider mites	1 1/2 pts.	Do not apply within 7 days of harvest.
Peppers (Bulb)	Aphids	1-2 1/2 pts.	Do not apply within 3 days of harvest.
	Pepper maggots	2 1/2 pts.	
Potatoes (White)	Aphids	2 pts.	May be applied on the day of harvest.
	Grasshoppers		
	Leafhoppers		
	False chinch bugs	1 1/2 pts.	
Pumpkins	Mealybugs	2-2 1/2 pts.	Do not apply to pumpkins unless plants are dry. Do not apply within 3 days of harvest.
	Aphids	2 pts.	
	Pickleworms		
	Spider mites		
	Leafhoppers	1 1/2-2 pts.	
Radish, Horseradish	Cucumber beetles	3 pts.	Do not apply within 7 days of harvest.
	Squash vine borer		
	Aphids	1 1/2-2 pts.	
Rice (Aquatic)	Rice leaf miner	2 1/2 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	1-1 1/2 pts.	
Rutabaga	Aphids	1 1/2 pts.	Do not apply within 3 days of harvest.
Spinach	Aphids	2 pts.	Do not apply within 7 days of harvest.
	Leafhoppers		
Squash	Aphids	2 pts.	Do not apply to squash unless plants are dry.
	Leaf miners		
	Spider mites Pickleworm		
Strawberries	Cucumber beetles Squash vine borer	3 pts.	Do not apply within 1 day of harvest.
	Aphids	1 1/2 pts.	
	Spider mites		
	Field crickets	1 1/2-3 pts.	
	Lygus bugs Spittlebugs Thrips		
Sweet Corn (Field + Sweet)	Potato leafhopper Strawberry leafroller Strawberry root weevil Whiteflies	1 1/2-2 1/4 pts.	Do not apply within 5 days of harvest. Injury may occur in the whorl or to the silks.
	Japanese beetle	2 pts.	
	Leafhoppers	1 1/2-2 pts.	
	Morning glory leaf miner	2 1/2-3 pts.	
Sweet Potatoes	Aphids	1 1/2 pts.	Do not apply within 3 days of harvest.
	Drosophila	2 1/2 pts.	
	Spider mites	1 1/2 pts.	
	Armyworms Fruitworms (California only)	2 1/2 qts.	
Tomatoes	Aphids	1 1/2 pts.	Do not apply within 1 day of harvest.
	Drosophila	2 1/2 pts.	
	Spider mites	1 1/2 pts.	
	Armyworms Fruitworms (California only)	2 1/2 qts.	
Turnip	Aphids	1-2 pts.	For control of caterpillars on summer and fall plantings in the South, begin when true leaves appear. On other plantings, and for control of other insects, begin when insects appear. Do not apply within 7 days of harvest if tops are to be used for food or feed.
	Cabbage looper		
	Imported cabbageworm		
	Leaf miner		

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regulates the rate of application to the flow of peanuts. Adjust the operating pressure of spray pump and size of nozzle opening to correlate the amount of spray delivery with the rate of flow of peanuts being treated. Avoid spraying with a fine mist that drifts away, by using low nozzle pressure. Shield the nozzle against wind and air currents.

SUPPLEMENTAL SURFACE SPRAY: After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1 1/2 pts. in 2 gallons of water and apply at the rate of 2 gallons per 1000 square feet of surface. Apply first treatment as soon as bin is filled and leveled, but not later than the first week in October. Apply the second surface treatment 1 month later, followed by treatment at 2 month intervals. Use a piston type powersprayer equipped with agitator and nozzle capable of delivering a coarse spray. Repeat surface application 60 days later if warm temperatures prevail. Otherwise delay further treatment until late winter.

Site	Pests Controlled	Rate	Directions For Use
Nonmedicated cattle feed concentrate blocks	Cigarette beetles	8 pts. in 25 gal. water	Before storing feed blocks, thoroughly clean storage areas and remove and burn all debris and sweepings. Apply as a thorough application for a residual spray.
		4 fl. oz. in 1 qt. water	Treat paper on the side next to the feed concentrate at a rate of 100 mg./sq. ft. or 1 qt. of diluted Prentox 51b, Malathion Spray per 710 sq. ft.
Bagged citrus pulp Residual warehouse spray	Almond moth Angoumois grain beetle Cigarette beetle Confused flour beetle Flat grain beetle Indian meal moth Mediterranean flour moth Red flour beetle Saw-toothed grain beetle	1 pt. in sufficient water to make 2 1/2 gals of spray OR 8 pts. per 19 gal. of water	Apply spray at the rate of 2 gallons per 1,000 sq. ft. of surface or to run-off. Before bagged citrus pulp is stored, thoroughly clean warehouses by removing and burning all debris and sweepings. Thoroughly spray with sufficient pressure, interior of empty warehouse (including cracks and protected places), outside walls to a height of 6 to 8 feet and ground to a distance of about 6 ft. from warehouse.
		Do not use treated burlap bags other than for dried citrus pulp.	
Stored Grains (Barley, corn, grain sorghum, oats, rice, rye, wheat) and field or garden seeds	Cereal leaf beetle Confused flour beetle Flat grain beetle Granary weevil Indian meal moth Lesser grain borer Maize weevil Red flour beetle Rice weevil Rusty grain beetle Saw-toothed grain beetle	8 pts. per 25 gal. of water	Residual Spray Before Storing Grains: Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris. For a residual wall, floor and machinery spray in elevators in treating truck beds, box cars and ships' holds, before loading grain make a thorough application.
		1 pt. in 2 to 5 gal. of water per 1,000 bushels	Grains Going Into Storage: Apply as the grain is being loaded or turned into final storage.
		1/4 pt. in 1 or 2 gal. of water per 1,000 sq. ft. or grain surface area.	As a Surface Treatment After Grains are Stored: Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.
Warehouse	Khapra Beetle	8 pts. per 20 gallons of water	Apply spray at the rate of 2 gallons per 1,000 sq. ft. of surface or to run-off. Thoroughly spray with sufficient pressure, interior of empty warehouse including cracks and protected places.

Ticks	1-2 gals per 100 gals of water OR 6 1/2-13 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed.
Hornflies	1-1 1/2 gals per 100 gals of water OR 6 1/2-10 ozs per 5 gals of water.	Apply complete coverage spray. Repeat at 2 week intervals if needed. Do not apply to lactating dairy animals, or nonlactating dairy animals within 2 weeks of freshening. Do not treat animals under one month of age. Residue tolerance: 4ppm 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 100-105 birds Repeat application in 4-8 weeks or when necessary. As a supplement to premise treatment for chicken red mite.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS. WARNING May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Causes eye irritation. Do not get in eyes, on skin or on clothing. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans. Do not permit children or pets to go onto the sprayed grass until spray has completely dried.

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, and protective eyewear.** 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 wash PPE separately from other laundry.

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

PHYSICAL OR CHEMICAL HAZARDS Do not use, pour, spill, or store near heat or open flame.

J. K.