



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 23, 2023

Anna Hale
Registration Manager
Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-0327

Subject: Registration Review Label Amendments Incorporating Mitigation from the Fish and Wildlife Services (FWS) and the National Marine Fisheries Services (NMFS) Biological Opinions on the Effects of Malathion on Endangered and Threatened Species and Designated Critical Habitat
Product Name: Drexel Malathion 50% Emulsifiable
EPA Registration Number: 19713-330
Application Dates: 4/29/2022 and 7/25/2022
Decision Numbers: 584320 and 589935

Dear Anna Hale:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the FWS and NMFS' Biological Opinions on the effects of malathion on federally listed endangered and threatened species and designated critical habitat in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40

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CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions, please contact Carolyn Smith by phone at (202) 566-2273 or via email at smith.carolyn@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kelly Sherman", with a stylized flourish at the end.

Kelly Sherman
Chief, Risk Management Implementation Branch 3
Pesticide Re-evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED
8/23/2023
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 19713-330



MALATHION	GROUP	1B	INSECTICIDE
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Malathion 50%

Emulsifiable

Insecticide/Miticide

ACTIVE INGREDIENT:	
Malathion*	50.0%
OTHER INGREDIENTS**:	50.0%
TOTAL:	100.0%

* O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate.
 **Contains petroleum distillate
 This product contains 4.3 pounds of malathion per gallon.

**KEEP OUT OF REACH OF CHILDREN
 CAUTION**

See **FIRST AID** Below

EPA Reg. No. 19713-330
 EPA Est. No. 19713-XX-XXX

Net Content: _____

FIRST AID
IF SWALLOWED: <ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING: <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES: <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency.
Note to Physician: Malathion may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. Contains petroleum distillate. May pose aspiration pneumonia hazard. Malathion is an organophosphate insecticide/miticide.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, flaggers and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate or viton \geq 14 mils, and shoes plus socks. 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40CFR170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call (901) 774-4370.

This product is highly toxic to bees exposed to direct treatment or residues 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. In citrus, stone fruit, pome fruit and tree nuts: Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

This pesticide 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 while bees are foraging the treatment area.

For Products Packaged in Containers Equal to or Greater than 5 Gallons: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance

with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product for sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. 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.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call (901) 774-4370.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI. The REI for each crop is listed in the Directions for Use associated with each crop.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of barrier laminate or viton \geq 14 mils, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests or nurseries.

Do not enter or allow others to enter until sprays have dried.

Endangered Species Protection Requirements:

It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g. kill or otherwise harm) of an endangered species and certain threatened species under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

RESISTANCE MANAGEMENT RECOMMENDATIONS

MALATHION	GROUP	1B	INSECTICIDE
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For resistance management, MALATHION 50% contains a Group 1B insecticide or acaricide. Any insect/mite population may contain individuals naturally resistant to this product and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of this product or other Group 1B insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues for the targeted pests between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticides/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Drexel Chemical Company at 1-901-774-4370.

MANDATORY SPRAY DRIFT MANAGEMENT

Non-Ultra Low Volume (ULV) Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard (ASABE S641). If the windspeed is 10 miles per hour or less, applicators must use 3/4 swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use full swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Airblast Applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

- Do not release spray at a height greater than 4 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- Do not apply when wind speeds exceed 10 mph at the application site.
- Do not apply during temperature inversions.

Non-ULV Ground Application

- Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, wetlands, ponds, estuaries, and commercial fish ponds).
- You must follow the instructions for additional buffer distances beyond the 25 feet, as applicable, per the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov.

Non-ULV Aerial Application

- Do not apply within 50 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, wetlands, ponds, estuaries, and commercial fish ponds).
- You must follow the instructions for additional buffer distances beyond the 50 feet, as applicable, per the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov.

SPRAY DRIFT REQUIREMENTS

Observe the following requirements when spraying in the vicinity of aquatic areas such as, but not limited to lakes, reservoirs, rivers, permanent streams, or natural ponds, estuaries and commercial fish ponds.

Temperature Inversion

Do not make aerial or ground applications into areas of temperature inversions.

Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

AGRICULTURAL USES

Make thorough, full-coverage spray applications. Consult local agricultural authorities for proper timing. Under heavy pest pressure, use higher rate.

Do not apply this product when soil is saturated, or when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 48 hours following application.

State and Federal Programs limiting use on the following sites to states and federal programs only:

Agricultural, uncultivated areas and fence rows/hedge rows.

Non-agricultural right of way/hedgerows.

For use only by federal, state, tribal or local government officials responsible for insect control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory Agency to perform grasshopper/Mormon Cricket, Beet Leafhopper or Boll Weevil control applications, or by persons under their supervision, or as allowed by state regulations for persons treating private property.

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

How to Report Bee Kills. It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://upic.orst.edu/reg/state_agencies.html.

PHI = Pre-Harvest Interval

REI = Restricted Entry Interval

VEGETABLES

Vegetable Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Broccoli (REI = 48 hrs.)	Asparagus aphids, Cabbage loopers, Imported cabbageworms	1 to 2.3 pts.	2
USE RESTRICTIONS: The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Cabbage (REI = 48 hrs.)	Aphids, Cabbage loopers, Imported cabbageworms	1 to 2.3 pts.	7
	Diamondback moth, Webworms	2.3 pts.	
	SPECIFIC DIRECTIONS: For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.		
USE RESTRICTIONS: The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.			
Cucumbers (REI = 24 hrs.)	Aphids, Pickleworms, Spider mites	1.6 to 2.3 pts.	1
	Cucumber beetles, Squash vine borers	3.2 pts.	
	Leafminers	2.3 pts.	
	SPECIFIC DIRECTIONS: Do not apply to Cucumbers unless plants are dry.		
USE RESTRICTIONS: The maximum application rate is 1.75 pounds a.i. (3.2 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Kale (REI = 12 hrs.)	Aphids, Cabbage loopers, Imported cabbageworms	1 to 1.8 pts.	7
	Diamondback moth, Webworms	1.8 pts.	
	SPECIFIC DIRECTIONS: For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.		
USE RESTRICTIONS: The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days.			
Mustard greens (REI = 12 hrs.)	Aphids, Cabbage loopers, Flea beetles, Imported cabbageworms,	1.8 pts.	7
	SPECIFIC DIRECTIONS: For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.		
USE RESTRICTIONS: The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days.			
Peas (Dry, Succulent) (REI = 12 hrs.)	Aphids, Grasshoppers	1.8 pts.	3
	Leafhoppers	1.4 to 1.8 pts.	
	SPECIFIC DIRECTIONS: Do not graze or feed treated crop foliage to livestock.		
USE RESTRICTIONS: The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Potatoes (REI = 12 hrs.)	Aphids, Grasshoppers, Leafhoppers	2.3 pts.	0
	False chinch bugs	1.7 pts.	
	Mealybugs	2.3 to 2.9 pts.	
USE RESTRICTIONS: The maximum application rate is 1.56 pounds a.i. (2.9 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Squash (Summer) (REI = 24 hrs.)	Aphids, Leafminers, Pickleworms, Spider mites	2.3 pts.	1
	Cucumber beetles, Squash vine borers	3.2 pts.	

	SPECIFIC DIRECTIONS: Do not apply to Squash unless plants are dry.		
USE RESTRICTIONS: The maximum application rate is 1.75 pounds a.i. (3.2 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.			
Squash (Winter) (REI = 12 hrs.)	Aphids, Cucumber beetles, Leafminers, Pickworms, Spider mites, Squash vine borer	1.8 pts.	1
	SPECIFIC DIRECTIONS: Do not apply to Squash unless plants are dry.		
USE RESTRICTIONS: The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 7 days.			
Tomatoes (REI = 12 hrs.)	Aphids, Spider mites	1.7 pts.	1
	Fruitworms (CA Only), Armyworms, Drosophila	2.9 pts.	
USE RESTRICTIONS: The maximum application rate is 1.56 pounds a.i. (2.9 pints of this product) per acre; the maximum number of applications per year is 4; and the minimum retreatment interval is 5 days.			
Turnips (Greens, Roots) (REI = 12 hrs.)	Aphids, Cabbage loopers, Imported cabbageworms	1.1 to 2 pts.	1
	SPECIFIC DIRECTIONS: For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.		
USE RESTRICTIONS: The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days for turnip greens and 7 days for turnip roots.			

FIELD CROPS

Field Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Alfalfa (REI = 12 hrs.)	Alfalfa weevil larvae, Aphids, Grasshoppers, Lygus bugs, Potato leafhoppers, Spider mites, Spittlebugs, Stinkbugs	1.7 to 2.3 pts.	0
	Armyworms, Vetch bruchids	2.3 pts.	
	Clover leaf weevils	1.7 pts.	
	SPECIFIC DIRECTIONS: Apply to Alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not hanging on outside of hives.		
USE RESTRICTIONS: The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications is 2/cutting and per year is 2; and the minimum retreatment interval is 7 days. Apply when day temperature is expected to be above 65°F and when 50-70% of leaves show damage.			
Cotton (REI = 48 hrs.)	Brown cotton leafworms, Cotton aphids, Cotton leafworms, Cotton leaf perforators, Desert spider mites, Leafhoppers, Lygus bugs, Thrips, Whiteflies	0.5 to 2.3 pts.	7
	Boll weevils	2.3 to 4.6 pts.	
	Cotton fleahoppers	1 to 1.5 pts.	
	Fall armyworms, Garden webworms, Grasshoppers	1.7 to 3.4 pts.	
	Lygus bugs, Thrips	1.1 to 4.6 pts.	
	SPECIFIC DIRECTIONS: Consult local agricultural authorities for exact time of application.		
USE RESTRICTIONS: The maximum application rate is 2.5 pounds a.i. (4.6 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			

FRUITS AND NUT CROPS

Do not apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Fruit and Nut Crops	Pest Controlled	Rate Per Acre	PHI (Days)
Cherries (Sweet, Tart) (REI = 12 hrs.)	Black cherry aphids, Cherry fruit flies, Fruittree leafrollers, Japanese beetles	3.2 pts.	3
	SPECIFIC DIRECTIONS: Injury may occur on certain varieties of Sweet cherries.		
USE RESTRICTIONS: The maximum application rate is 1.75 pounds a.i. (3.2 pints of this product) per acre; the maximum number of applications per year is 4; and the minimum retreatment interval is 3 days.			
Peaches (REI = 24 hrs.)	Black cherry aphids, Black peach aphids, Cottony peach scales, European fruit lecaniums, European red mites, Green peach aphids, Japanese beetles, Oriental fruit moths, Plum curculios, Rusty plum Aphids, Spider mites, Terrapin scales	5.5 pts.	7
	SPECIFIC DIRECTIONS: Make full coverage applications at completion of hatching.		
USE RESTRICTIONS: The maximum application rate is 3 pounds a.i. (5.5 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 11 days.			

NON-AGRICULTURAL OUTDOOR USES

For outdoor use only.

Application equipment limited to hand-pump sprayers, hose-end sprayers, and sprinkler cans.

Do not apply more than two applications per year.

Minimum retreatment interval is 10 days.

Do not apply this product when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 24 hours following application.

Spot treatment only.

Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries, and commercial fish ponds).

Do not spray apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, wetlands or natural ponds, estuaries and commercial fish farm ponds). Do not apply directly to sewers or storms drains, or to any area like a drain or gutter where drainage to sewers, storms drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.

Do not apply or irrigate to the point of runoff.

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

OUTDOOR ORNAMENTALS (REI = 12 HRS.)

ORNAMENTAL HERBACEOUS PLANTS, ORNAMENTAL AND/OR SHADE TREES, ORNAMENTAL WOODY SHRUBS AND VINES

Injury may occur on Canareti juniper, Crassula, Ferns, Hickory, Lantana and Viburnum following the use of this product. Slight injury has also been reported on Boston and Maidenhair ferns, Maples, Petunias, Pteris, Small leaf spireas and White pines. Under extreme heat, drought and disease conditions, this product may cause slight damage to Elms.

SPECIFIC DIRECTIONS: Add specified amounts of water and this product to sprayer tank. Apply when insects or damage appear. Apply when air is calm. Start spraying at the farthest end of the treatment area and work backwards to avoid contact with wet surfaces. Spray thoroughly to wet upper and lower leaf surfaces, stems, and branches. Allow spray to dry in treated areas before reentering.

PEST	Rate of This Product Per	
	100 Gals. of Water (pts.)	1 Gallon of Water (tsps.)
Aphids, Spider mites	1.7	1.6
Azalea scales, Magnolia scales, Pine leaf scales	2.3	2.2
Bagworms, Birch leafminers, Boxwood leafminers	2.3	2.2
Black scales (crawlers), Soft brown scales	2.6	2.5
Euonymous scales, Scurfy scales	1.7	1.6
European pine shoot moths, Fourlined leaf bugs, Japanese beetles (adult), Potato leafhoppers, Rose leafhoppers, Tarnished plant bugs, Thrips	1.7	1.6
Fletcher scales*	2.3	2.2
Florida red scales, Juniper scales*	2.3	2.2
Lace bugs	1.1	1
Mealybugs, Whiteflies	1.7	1.6
Monterey pine scales	2.9	2.7
Oak kermes*	2.3	2.2
Oystershell scales*	1.1	1
Pine needle scales	4.6	4.4
Tent caterpillars	2.3	2.2
Wax scales**	4.6	4.4
USE RESTRICTIONS: Do not apply more than 2.5 pounds a.i. (4.6 pints of this product) per acre (1.7 fl. ozs. or 3 tbsps. per 1,000 sq. ft.) per application. Maximum number of applications per year is 2 for ornamental and/or shade trees. For ornamental woody shrubs and vines, the maximum number of applications per year/growing cycle is 2. Minimum retreatment interval is 10 days.		
* Apply when Scale crawlers have settled on foliage.		
** Apply in Spring when crawlers are active. Repeat 1 or 2 full coverage applications at 10 day intervals.		

FLY AND MOSQUITO CONTROL - OUTDOOR USE ONLY

Apply a coarse spray in a two-foot wide or less band from the base of a man-made structure and up to two feet on wall surfaces.

Do not apply more than 4 applications per year.

Minimum retreatment interval is 7 days.

Pest	Rate of This Product	Specific Directions
Adult flies	Straight Sprays: 2.9 fl. ozs. + 1 gal. of water or 9.2 fl. ozs + 2.5 gals. of water or 1.1 qts. + 12 gals. of water	Spray at the rate of 1 gallon per 1,000 sq. ft. on painted surfaces and 2 gallons per 1,000 sq. ft. on unpainted surfaces where Flies alight or congregate.
Mosquito adults	1 part to 25 parts water, fuel oil or diesel oil	Spray lower outside foundation of residence, shrubs, low trees, and lawn areas where Mosquitoes may rest (spot treatment only). Do not apply as a broadcast treatment to residential lawns.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F). Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Do not store near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Collect and place in suitable containers for disposal.
2. Wash area with soap and water to remove remaining pesticide.
3. Follow washing with clean water rinse.
4. Do not allow runoff to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:

Nonrefillable Container (rigid material; less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

Nonrefillable Container (rigid material; 5 gallons up to < 250 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

Refillable Containers (≥ 250 gallons & Bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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