



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 23, 2023

Annette Marine
Agent for Sharda USA LLC
Sharda USA LLC
c/o Wagner Regulatory Associates, Inc.
P.O. Box 640
Hockessin, DE 19707

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: Sharda Malathion 50% EC
EPA Registration Number: 83529-117
Application Dates: 6/8/2022 and 9/20/2022
Decision Numbers: 585208 and 587581

Dear Annette Marine:

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

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before you release the product for shipment with the new labeling. In accordance with 40 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 long horizontal flourish extending to the right.

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

Enclosure

[MASTER LABEL]

MALATHION

GROUP

1B

INSECTICIDE

Sharda Malathion 50% EC

ACTIVE INGREDIENT:

Malathion (O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate) 50.0%

OTHER INGREDIENTS*: 50.0%**TOTAL:** **100.0%**

Contains 4.4 pounds malathion per gallon.

* Contains an organophosphate that inhibits cholinesterase.

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.)

FIRST AID	
ORGANOPHOSPHATE	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at 1-800-222-1222 .	
Note to Physician: Malathion is a cholinesterase inhibitor. Contains an organophosphate that inhibits cholinesterase. Atropine is antidotal if signs of cholinesterase inhibition are present.	

[Optional referral statements when booklets and container labels are used:]

[See label booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] [Directions For Use,] and [Storage and Disposal.]

EPA Reg. No. 83529-117

EPA Est. No. XXXXX-XX-XXX

Manufactured for:

Sharda USA LLC 7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

Net Contents: _____ [Gals./Qt./Fl. oz./Pt.]

ACCEPTED

08/23/2023

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 83529-117

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. **DO NOT** get in eyes or on clothing. Remove and wash contaminated clothing before reuse. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of Barrier Laminate, Butyl Rubber \geq 14 mils, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils, Polyvinyl Chloride \geq 14 mils, or Viton \geq 14 mils
- Protective eyewear
- Chemical-resistant headgear (air blast only)

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling the 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.

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 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.**

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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-302-635 7632.

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.

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.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI). The REI for each crop is listed in the Specific Use Directions associated with each crop.

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, including plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of Barrier Laminate, Butyl Rubber ≥14 mils, Nitrile Rubber ≥14 mils, Neoprene Rubber ≥14 mils, Polyvinyl Chloride ≥14 mils, or Viton ≥14 mils
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow others to enter until sprays have dried.

RESTRICTIONS

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply by aerial application.
- Not for use or sale in California.
- Use on cull piles (including cull dumps, cull piles, fruit dumps, cull fruit and vegetable dumps) is prohibited.
- Use as a mosquito larvicide is prohibited.
- To minimize hazard to bees, **DO NOT** apply this product more than 2 hours after sunrise or more than 2 hours before sunset. This timing restriction prohibits applications when bees are most active (mid-day). This restriction does not apply when applications are made as a spot treatment or to prevent or control a threat to public and/or animal health determined by a State, Tribal, or local public health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito borne disease in animal or human populations, or if specifically approved by the State or Tribe during a natural disaster recovery effort.
- **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 24-hours following application.
- **DO NOT** 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 or allow the product to enter sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- **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.

Calibrate and inspect nozzles at least once a year to ensure they are in good working condition.

RESISTANCE MANAGEMENT

For resistance management, **Sharda Malathion 50% EC** contains malathion and is classified in the organophosphates chemical class as a Group 1B insecticide or acaricide.

Any insect population may contain individuals naturally resistant to **Sharda Malathion 50% EC** and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies must be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **Sharda Malathion 50% EC** or other Group 1B insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides 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 must 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 insecticide/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 advisors 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 a Sharda USA LLC representative.

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 6 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.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-302-635 7632.

MANDATORY SPRAY DRIFT MANAGEMENT

Airblast Applications:

- Sprays must be directed into the canopy.
- **DO NOT** apply when wind speed 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.

SPRAY DRIFT REQUIREMENTS

Observe the following requirements when spraying in the vicinity of aquatic areas including, but not limited to lakes; reservoirs; rivers; permanent streams; natural ponds; estuaries and commercial fishponds.

ULV Ground 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). This 50-foot buffer is in addition to the full swath displacement upwind that applicators must use at the downwind edge of the field. Applications made by mosquito control districts and other public health officials are exempt from this requirement.

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 fishponds). 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.

Droplet Size

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

For ground boom applications, use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators must use a coarser droplet size.

Wind Direction and Speed

Make ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). **DO NOT** apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

Temperature Inversion

DO NOT make 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.

Additional Requirements for Ground Applications

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided. For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. to minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

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://npic.orst.edu/reg/state_agencies.html.

SPECIFIC USE DIRECTIONS NON-AGRICULTURAL OUTDOOR USES

OUTDOOR ORNAMENTALS

Ornamental Herbaceous Plants, Shade Trees, Ornamental Woody Shrubs, and Ornamental Non-Flowering Plants.

For use on outdoor ornamentals to control the listed insects. **DO NOT** apply to Boston, Pteris or Maidenhair Ferns, Viburnum, Lantana, Crassula, Canaertii Junipers, Petunias, or Small Leaf Spirea since injury may result.

Restrictions:

- Restricted-Entry Interval (REI): 12 hours
- Minimum Retreatment Interval: 10 days

The proper use of a spreader sticker will enhance insect control, especially with scale. Treat when insects are first seen and damage is anticipated.

Pest Controlled	Rate (Pts.) per 100 Gals. Water	Maximum Applications per year
Aphids, Spider Mites	1.5	6
Bagworms, Birch Leaf Miner, Boxwood Leaf Miner	2	4
European Pine Shoot Moth, Four-lined Leaf Bug, Japanese Beetle Adult, Potato Leafhopper, Rose Leafhopper, Tarnished Plant Bug, Thrip	1.5	6
Lace Bug	1	8
Mealybugs, Whiteflies	1	6
Oak Kermes	2	3
Tent Caterpillar	2	4
Scales		
Azalea Scale, Magnolia Scale, Pine Leaf Scale	2.25	4
Black Scale Crawlers, Soft Brown Scale	2.25	3
Euonymus Scale, Scurfy Scale	1.5	6
Fletcher Scale*, Florida Red Scale*, Juniper Scale*	2	4
Monterey Pine Scale	2.5	3
Oyster Shell Scale	1	8
Pine Needle Scale	4	2

Wax Scale**	4	2
*Apply when scale crawlers have settled on foliage. **Apply in spring when crawlers are active.		

AGRICULTURAL USES

Fluid Ounce of Sharda Malathion 50% EC per Pound of A.I.

Fluid Ounce	=	Pound/A.I.
8	=	0.27
15	=	0.51
16	=	0.54
22	=	0.75
24	=	0.82
27	=	0.92
29	=	0.99
32	=	1.09
36	=	1.22
37	=	1.26
54	=	1.84
74	=	2.52

VEGETABLES

Thoroughly spray plants particularly the undersides of leaves and the developing fruit. Consult local agricultural authorities for proper timing. Under heavy pest pressure, use higher rate.

Crop	Pests	Rate per 100 Gals. per Acre	Application Instructions & Restrictions
Broccoli	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	36 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 48 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 2 days of harvest.
Cabbage	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 48 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 7 days of harvest.
Cantaloupe	Aphids Cucumber Beetle Leaf Hopper Spider Mites	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 1 day of harvest.
Celery	Aphids Spider Mites	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.5 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 7 days of harvest.
Cucumber	Aphids Spider Mites	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.75 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 1 day of harvest.

Eggplant	Aphids Spider Mites	15 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 4 days • Maximum single application rate 1.56 lbs. a.i. per acre. • DO NOT make more than 5 applications per year. • DO NOT apply within 3 days of harvest.
Head Lettuce	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 6 days • Maximum single application rate 1.88 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 14 days of harvest.
Kale	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 5 days • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 7 days of harvest.
Mustard Greens	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 5 days • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 7 days of harvest.
Onion	Thrips	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.56 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 3 days of harvest.
Peas (Succulent Only)	Aphids Grasshoppers	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment interval: 7 days. • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 2 application per year. • DO NOT apply within 3 days of harvest.
	Leafhoppers	22 - 29 fl. oz.	
Peppers	Aphids	15 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 5 days • Maximum single application rate 1.56 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 3 days of harvest.
Potatoes	Aphids Leaf Hoppers Mealybugs	15 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.56 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • PHI: 0 days
Radishes	Aphids	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 7 days of harvest.
Rice (Field)	Grasshoppers Rice Stink Bug Rice Leaf Minor	24 - 32 fl. oz.*	Application Instructions <ul style="list-style-type: none"> • Apply as a coarse spray in sufficient water (usually 3 - 20 gals./A depending on equipment) for thorough coverage. Apply when wind is 5 mph or below to avoid drift. • 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.

			<p>*Use higher rate for rice leaf minor.</p> <p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • A 24-hour holding time is required before floodwaters may be released after treatment to rice. • DO NOT apply within 7 days of harvest.
Squash (Summer)	Aphids Cucumber Beetle Leaf Hopper Spider Mites	29 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • DO NOT apply unless plants are dry. • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.75 lbs. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 1 day of harvest.
Squash (Winter)	Aphids Cucumber Beetle Leaf Hopper Spider Mites	29 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • DO NOT apply unless plants are dry. • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1 lb. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 1 day of harvest.
Tomatoes	Aphids Spider Mites	29 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 5 days • Maximum single application rate 1.56 lbs. a.i. per acre. • DO NOT make more than 4 applications per year. • DO NOT apply within 1 days of harvest.
Turnips	Aphids Cabbage Looper Imported Cabbage Worm Leaf Hopper	36 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 5 days (greens); 7 days (roots) • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply within 1 days of harvest.

FIELD CROPS

Crop	Pests	Rate per Acre	Application Instructions & Restrictions
Alfalfa	Alfalfa Weevil Larvae Aphids Grasshoppers Lygus Bugs Potato Leafhoppers Spider Mites Spittlebugs Stinkbugs	27 - 37 fl. oz.	<p>Application Instructions</p> <p>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.</p> <p>Apply when day temperature is expected to be above 65°F and when 50-70% of leaves show damage.</p>
	Armyworms Vetch Bruchids	37 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 14 days • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply to alfalfa in bloom. • PHI: 0 days
	Clover Leaf Weevils	27 fl. oz.	
Cotton	Brown Cotton Leafworms Cotton Aphids Cotton Leafworms Cotton Leaf Perforators Desert Spider Mites Leafhoppers	8 - 37 fl. oz.	<p>Application Instructions</p> <p>Consult with local agricultural authorities for exact time of application.</p> <p>Restrictions</p>

Lygus Bugs Thrips Whiteflies		<ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 48 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 2.5 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 7 days of harvest.
Boll Weevils	37 - 74 fl. oz.	
Cotton Fleahoppers	16 - 24 fl. oz.	
Fall Armyworms Garden Webworms Grasshoppers	27 - 54 fl. oz.	
Lygus Bugs Thrips	18 - 74 fl. oz.	

FRUITS

Crop	Pests	Rate per 100 Gals. per Acre	Application Instructions & Restrictions
Grapes	Leaf Hoppers Mealybugs Spider Mites	29 fl. oz.	<p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 3 days (girdling and tying); 24 hours (all other activities) • Minimum Retreatment Interval: 14 days • Maximum single application rate 1.88 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply within 3 days of harvest. • May cause injury to foliage. Check with local Agricultural Authorities.
Cherries (Sweet and Tart)	Black Cherry Aphids Fruit Tree Leaf Rollers	29 fl. oz.	<p>Application Instructions</p> <ul style="list-style-type: none"> • Thoroughly spray trees. <p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 3 days • Maximum single application rate 1.75 lbs. a.i. per acre. • DO NOT make more than 4 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 3 days of harvest. • May injure foliage.
Peaches	Oriental Fruit Moth Plum Curculio Spider Mites	29 fl. oz.	<p>Application Instructions</p> <ul style="list-style-type: none"> • Spray when damage is first seen or is anticipated. <p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 11 days • Maximum single application rate 3 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 7 days of harvest.
Pears	Codling Moth Fruit Tree Leaf Roller Pear Psylla Plum Curculio Red-Banded Leaf Roller	29 fl. oz.	<p>Application Instructions</p> <ul style="list-style-type: none"> • May injure Bosc pears in Northeast <p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 1.25 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 1 days of harvest.
Pecans	Aphids Pecan Nut Casebearer Pecan Phylloxera Spider Mites	29 fl. oz.	<p>Application Instructions</p> <ul style="list-style-type: none"> • Apply with a pressure sprayer. • Treat when insects are first seen or their damage is anticipated. <p>Restrictions</p> <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 24 hours • Minimum Retreatment Interval: 7 days

			<ul style="list-style-type: none"> • Maximum single application rate 2.5 lbs. a.i. per acre. • DO NOT make more than 2 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 7 days of harvest.
Strawberries	Aphids Spider Mites	15 fl. oz.	Restrictions <ul style="list-style-type: none"> • DO NOT apply when fruit is in bloom and bees are present. • Treat when insects first appear. • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 7 days • Maximum single application rate 2 lbs. a.i. per acre. • DO NOT make more than 4 applications per year. • DO NOT apply within 3 days of harvest.

CITRUS

For control of Black Scale, California Scale, Citricola Scale, Soft Scale and Yellow Scale, Florida Red and Purple Scale, the Mediterranean Fruit Fly, Thrips, and Aphids. This spray will also suppress Spider Mites that may be present. Apply sprays to give thorough coverage of fruit and the upper and lower sides of leaves and twigs when insects are present or their damage is eminent.

Restriction:

- **DO NOT** apply when trees are in bloom or within 7 days of harvest.

Crop	Rate per 100 Gals. per Acre	Application Instructions & Restrictions
Grapefruit Limes Oranges Tangerines Tangelos	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 12 hours • Minimum Retreatment Interval: 30 days • Maximum single application rate 1.5 lbs. a.i. per acre. • DO NOT make more than 3 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 7 days of harvest. • Not for use in California.
Kumquats	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 48 hours • Minimum Retreatment Interval: 30 days • Maximum single application rate 4.5 lbs. a.i. per acre • DO NOT make more than 1 applications per year. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 7 days of harvest.
Lemons	29 fl. oz.	Restrictions <ul style="list-style-type: none"> • Restricted-Entry Interval (REI): 48 hours • Minimum Retreatment Interval: 30 days • DO NOT make more than 1 application per year. • For use only in Florida. • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • DO NOT apply within 7 days of harvest.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in the original unopened container in a secure dry place. **DO NOT** contaminate with other pesticide or fertilizers. The product must never be heated above 55°C (131°F) and must not be stored for long periods of time at a temperature in excess of 25°C (77°F).

PESTICIDE DISPOSAL: To avoid wastes, use all materials in this container by application according to label directions. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING [less than 5 gallons]: Non-refillable 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 ¼ 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities.

Nonrefillable Container [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 ¼ 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in sanitary landfill or by other procedures approved by State and local authorities.

CONTAINER HANDLING [For Bulk and Mini-Bulk Containers]: Refillable container. Refill this container with pesticide only. **DO NOT** use 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 person refilling. To clean 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.

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