



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

83529-285

Date of Issuance:

9/30/25

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Sharda Malathion 57% EC

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Digitally signed by Debra Rate
Date: 2025.09.30 15:51:12
-04'00'

Date:

9/30/25

Debra Rate, Acting Product Manager 11
Invertebrate & Vertebrate Branch 2, Registration Division (7505T)

2. You are required to comply with the data requirements described in the generic data call-in (GDCI) or endocrine disruptor screening program (EDSP) order identified below:

- a. Malathion GDCI-057701-830

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-285."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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) lists 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. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 6/10/2024

If you have any questions, please contact Briana Hanlon at (202) 566-2716 or at hanlon.briana@epa.gov.

Enclosure

[MASTER LABEL]

MALATHION

GROUP

1B

INSECTICIDE

Sharda Malathion 57% EC

Organophosphate
ABN: Malta 57EC

ACTIVE INGREDIENT:

Malathion (O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate) 57.0%

OTHER INGREDIENTS*: 43.0%**TOTAL:** 100.0%

Contains 5 pounds malathion per gallon.

*Contains Petroleum Distillate.

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	
This product is an organophosphate and a cholinesterase inhibitor.	
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 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 - 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 affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. Antidote: Administer atropine sulphate in large doses, 2 to 4 mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5- to 10-minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for, atropine, which is a symptomatic and often lifesaving antidote. DO NOT GIVE MORPHINE OR TRANQUILIZERS. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of malathion may occur and relapse may occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS. Contains Petroleum Distillate. Vomiting may cause aspiration pneumonia.	

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

Manufactured for:

Sharda USA LLC7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707**ACCEPTED**

09/30/2025

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No.

83529-285

EPA Reg. No. 83529-XXX

EPA Est. No. XXXXX-XX-XXX

Net Contents: _____ [Gals./L.]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. **DO NOT** get in eyes or on clothing. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

For All Formulations and Use Patterns – Mixers, Loaders, Applicators, Flaggers, and Other Handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or Viton ≥14 mils. Pilots must wear chemical-resistant gloves only when entering or exiting the aircraft.
- Protective Eyewear

For All Dip Applications – Mixers, Loaders, and Applicators must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or Viton ≥14 mils
- Chemical-resistant apron
- Protective Eyewear

For All Air Blast Applications – Applicators must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or Viton ≥14 mils.
- Chemical-resistant apron
- Protective Eyewear

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

ENGINEERING CONTROL STATEMENTS

Pilots must use an enclosed cockpit in a manner that is consistent WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands 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 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 product runoff that contains this product.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff.

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.

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.

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.**

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-800-331-3148.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. **DO NOT** use or store near heat or open flame, including pilot lights.

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.

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 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.

ENDANGERED SPECIES

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.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-800-331-3148.

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 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 restricted-entry interval (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 Worker Protection Standard and that involves contact with anything that has been treated including plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or Viton ≥14 mils
- Shoes plus socks
- 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** use this product for any uses other than those specified on this label.

PRECAUTIONS:

- For proper mixing, fill the spray tank at least $\frac{3}{4}$ filled with water before **Sharda Malathion 57% EC** is added. Mechanical agitation or recirculation through the pump by-pass to the tank is usually sufficient for maintaining a good dispersion. Rinse empty container with water and drain into spray tank – repeat twice more. Repeat applications may be made as indicated. Consult your State Agricultural Experiment Station for proper timing of applications.
- **DO NOT** permit spray to contact auto vehicles as paint finish could be permanently damaged. If vehicles come into contact with spray, wash immediately.

RESTRICTIONS FOR STATE/FEDERAL PROGRAMS

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.

POLLINATOR PROTECTION

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.

Pollinator Best Management Practices (Agricultural Uses):

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>.

Pollinator Best Management Practices (Non-Agricultural Uses):

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 avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **Sharda Malathion 57% EC** contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Sharda Malathion 57% EC and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **Sharda Malathion 57% 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 (<https://www.shardausa.com/>).

MANDATORY SPRAY DRIFT MANAGEMENT**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 a 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 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.

Additional Requirements for Aerial Applications

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. Aerial applicators must consider flight speed and nozzle orientation in determining droplet size. When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 4 to 10 mph.

Mist blowers with a pump capable of producing 40 psi and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles, 8001 to 8002, placed 30° into air blast, or rotary atomizers placed into the air blast that produce an efficient spray particle with a mass median diameter of 30 to 100 microns. Other similar application equipment which has demonstrated the capability to deliver even distribution of the labeled rate over the desired area may be used.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 12 psi are satisfactory. Use air pressure on chemical tanks and an accurate metering valve to assure a calibrated flow of the pesticide. Air should be regulated with a relief valve and gauge for proper air and liquid mixture. Pneumatic-type spray nozzles, as suggested by equipment manufacturer, should be used for spray particles with mass median diameter of 30 - 100 microns.

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-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 ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ 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 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.

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 very fine or finer 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 ½

swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use $\frac{3}{4}$ 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 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.

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; marshes or natural ponds; estuaries and commercial fish ponds.

BUFFER ZONES TO WATER BODIES

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.

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.

WIND DIRECTION AND SPEED

Make aerial or 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. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

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.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

SENSITIVE AREAS

Apply the pesticide only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

AGRICULTURAL USES

Make application to agricultural sites using a minimum of 30 (ground) gallons or 5 (aerial) gallons of water per acre unless otherwise noted in the table directly below. When application rate range is given use the higher rate under heavy pest pressure.

Alfalfa

Pests Controlled	Rate/Acre	Application Instructions
Alfalfa Weevil (Larvae)* Aphids Grasshoppers Lygus Bugs Potato Leafhoppers Spider Mites Spittlebugs Stink Bugs Pea Aphid	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none">• DO NOT apply to alfalfa in bloom.• Maximum Single Application Rate: 1.25 lbs. a.i./A• Maximum Number of Applications per Year: 2.• Minimum Application Interval: 14 days• Minimum Pre-Harvest Interval: 0 days• Restricted-Entry Interval: 12 hours
Clover Leaf Weevil	1.5 pts.	
Armyworms Vetch Bruchid	2 pts.	*Apply when day temperature is expected to be above 65°F and when 50-70% of leaves show damage.

Apricots

Pests Controlled	Rate/Acre	Application Instructions
Aphids Codling Moth European Fruit Lecanium Orange Tortrix Soft Brown Scale Terrapin Scale	2.4 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.5 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 6 days Restricted-Entry Interval: 12 hours DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Asparagus

Pests Controlled	Rate/Acre	Application Instructions
Asparagus Aphid Asparagus Beetle	2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 6 days Restricted-Entry Interval: 12 hours
Thrips	1.5 - 2 pts.	

Avocado

Pests Controlled	Rate/Acre	Application Instructions
Greenhouse Thrips Latania Scale	7.5 pts.	Application rates are based on a standard dilution rate of 500 (ground) gallons of water per acre.

Omnivorous Looper Orange Tortrix Soft Brown Scale		Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 4.7 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 30 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 48 hours
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Barley

Pests Controlled	Rate/Acre	Application Instructions
Cereal Leaf Beetle English Grain Aphids Grasshoppers Greenbugs Winter Grain Mites	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours

Beets, Garden

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours • DO NOT apply to Sugar Beets.

Blueberry (High Bush and Low Bush)

Pests Controlled	Rate/Acre	Application Instructions
Blueberry Maggots Cherry Fruit Worm Cranberry Fruit Worm Japanese Beetle	2 pts.	<p>The rates for use on blueberries are based on a standard of 200 gals. per acre dilute spray.</p> Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 5 days • Minimum Pre-Harvest Interval: 1 day • Restricted-Entry Interval: 12 hours

Broccoli, Chinese Broccoli, and Broccoli Rabb

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Flea Beetle Imported Cabbageworm	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 2 days • Restricted-Entry Interval: 48 hours

Brussels Sprouts

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Flea Beetle Imported Cabbageworm	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 2 days • Restricted-Entry Interval: 48 hours

Cabbage and Chinese Cabbage

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Diamondback Moth Flea Beetle Imported Cabbageworm Webworm	1 - 2 pts.	<p>For caterpillars on summer and fall plantings, begin when true leaves appear. On other plantings and for other insects, apply when insects appear.</p> Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 48 hours

Cantaloupe

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cucumber Beetles Leaf Miners Leafhoppers Pickleworms Spider Mites Squash Vine Borer	1.6 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Caneberries (Blackberry, Boysenberry, Dewberry, Gooseberry, Loganberry, and Raspberry)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Japanese Beetle Leafhoppers Mites Rose Scale Chafers Thrips	3.2 pts.	Application rates are based on a standard dilution rate of 200 (ground) gallons of water per acre. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2 lbs. a.i./A Maximum Number of Applications per Year: 3 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Carrots

Pests Controlled	Rate/Acre	Application Instructions
Aphids Leafhoppers	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 24 hours

Cucumber

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cut Worms Darkling Ground Beetle Leafhoppers Pickleworms Spider Mites Squash Vine Borer Thrips	1.5 - 2.8 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.75 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 24 hours

Cauliflower

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Diamondback Moth Flea Beetle Imported Cabbageworm Webworm	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 2 days Restricted-Entry Interval: 48 hours

Celery

Pests Controlled	Rate/Acre	Application Instructions
Aphids spider mites	2.4 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.5 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours

Cherries (Sweet and Tart)

Pests Controlled	Rate/Acre	Application Instructions
Black Cherry Aphid Cherry Fruit Fly Eyespotted Bud Moth Fruit Tree Leafroller Japanese Beetle	1.96 pts.	Application rates are based on a standard dilution rate of 400 (ground) gallons of water per acre for mature trees. Injury may occur on certain varieties of sweet cherries. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.22 lbs. a.i./A

		<ul style="list-style-type: none"> • Maximum Number of Applications per Year: 4 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 3 days • Restricted-Entry Interval: 12 hours • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.
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Citrus Fruits (Grapefruit, Lemon, Lime, Orange, Tangerine, and Tangelo) – All States Except California and Florida

Pests Controlled	Rate/Acre	Application Instructions
Black Scale California Red Scale Citricola Scale Purple Scale Soft Scale Thrips Yellow Scale	2.4 pts. (7.2 pts.*)	<p>Use the higher listed rate for heavy infestation.</p> <p>Apply with sufficient water to obtain full coverage of foliage. Apply in a minimum of 100 gals. of water per acre by ground, and up to 500 gals. of water per acre for mature trees. Use higher volumes of water as appropriate to ensure thorough coverage of foliage, depending on density and size of area to be treated.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.5 (4.5*) lbs. a.i./A • Maximum Number of Applications per Year: 3 (1*) • Minimum Application Interval: 30 days (NA*) • Minimum Pre-Harvest Interval: 7 days (7 days*) • Restricted-Entry Interval: 12 hours (3 days*) • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. <p>*The Restricted-Entry Interval (REI) is 12 hours if applied at the maximum rate of 1.5 lbs. a.i. (2.4 pts. of this product) per acre; maximum number of applications per year is 3 at minimum retreatment interval of 30 days. However, the REI is increased to 3 days if applied at the maximum rate of 4.5 lbs. a.i. (7.2 pts. of this product) per acre; only 1 application is allowed per year.</p>

Citrus Fruits (Grapefruit, Lemon, Lime, Orange, Tangerine, and Tangelo) – California Only

Pests Controlled	Rate/Acre	Application Instructions
Black Scale California Red Scale Citricola Scale Purple Scale Soft Scale Thrips Yellow Scale	2.4 pts. (12 pts.*)	<p>Use the higher listed rate for heavy infestation.</p> <p>Apply with sufficient water to obtain full coverage of foliage. Apply in a minimum of 100 gals. of water per acre by ground, and up to 500 gals. of water per acre for mature trees. Use higher volumes of water as appropriate to ensure thorough coverage of foliage, depending on density and size of area to be treated.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.5 (7.5*) lbs. a.i./A • Maximum Number of Applications per Year: 3 (1*) • Minimum Application Interval: 30 days (NA*) • Minimum Pre-Harvest Interval: 7 days (7 days*) • Restricted-Entry Interval: 12 hours (3 days*) • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. • At 7.5 lbs. ai/A, only airblast applications are permitted (aerial applications prohibited). <p>*The Restricted-Entry Interval (REI) is 12 hours if applied at the maximum rate of 1.5 lbs. a.i. (2.4 pts. of this product) per acre; the maximum number of applications per year is 3 at minimum retreatment interval is 30 days. However, the REI is increased to 72 hours if applied at the maximum rate of 7.5 lbs. a.i. (12 pts. of this product) per acre; only 1 application is allowed per year.</p>

Citrus Fruits (Grapefruit, Lemon, Lime, Orange, Tangerine, and Tangelo) – Florida Only

Pests Controlled	Rate/Acre	Application Instructions
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Black Scale California Red Scale Citricola Scale Purple Scale Soft Scale Thrips Yellow Scale	2.4 pts.	<p>Apply with sufficient water to obtain full coverage of foliage. Apply in a minimum of 100 gals. of water per acre by ground, and up to 500 gals. of water per acre for mature trees. Use higher volumes of water as appropriate to ensure thorough coverage of foliage, depending on density and size of area to be treated.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.5 lbs. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 30 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours • DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.
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Clover

Pests Controlled	Rate/Acre	Application Instructions
Alfalfa Weevil (Larvae) Aphids Grasshoppers Lygus Bugs Potato Leaf Hoppers Spider Mites Spittlebugs Stink Bugs Pea Aphid	1.5 - 2 pts.	<p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2/cutting • Minimum Application Interval: 14 days • Minimum Pre-Harvest Interval: 0 days • Restricted-Entry Interval: 12 hours • DO NOT apply to clover in bloom.
Clover Leaf Weevil	1.5 pts.	
Armyworms Vetch Bruchid	2 pts.	

Collards

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper (Smaller) Harlequin Cabbage Bug Leaf Hoppers Leaf Miners	1.5 pts.	<p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours

Corn (Field)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Armyworms (Smaller) Corn Earworms Corn Rootworm (Adults) Grasshoppers (Young) Leaf Hopper Sap Beetle Thrips	1.5 pts.	<p>For corn earworm and sap beetles, treat when 10% of the ears show silk.</p> <p>Injury may occur in the whorl silk stages.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 3 days for detassling; 12 hours for all other activities

Corn (Sweet and Pop)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Armyworms (Smaller) Corn Earworms Corn Rootworm (Adults) Grasshoppers (Young) Leaf Hopper Sap Beetle Thrips	1.5 pts.	<p>For corn earworm and sap beetles, treat when 10% of the ears show silk.</p> <p>Injury may occur in the whorl silk stages.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 5 days • Minimum Pre-Harvest Interval: 5 days • Restricted-Entry Interval: 3 days for detassling; 12 hours for all other activities

Chayote Fruit

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 - 2.8 pts.	Restrictions:

Cut Worms Darkling Ground Beetle Leafhoppers Pickleworms Spider Mites Squash Vine Borer Thrips		<ul style="list-style-type: none"> Maximum Single Application Rate: 1.75 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 24 hours
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Chayote Root

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cut Worms Darkling Ground Beetle Leafhoppers Pickleworms Spider Mites Squash Vine Borer Thrips	1.5 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 24 hours

Chestnut

Pests Controlled	Rate/Acre	Application Instructions
Mites	1.5 - 4 pts.	Treat when mites appear in numbers and repeat in 7 - 10 days. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2.5 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 2 days Restricted-Entry Interval: 24 hours DO NOT treat after shucks split. DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Cotton

Pests Controlled	Rate/Acre	Application Instructions
Brown Cotton Cotton Aphid Cotton Leaf Perforator Cotton Leafworm Desert Spider Mite Fall Armyworms Garden Webworms Grasshoppers Leafhoppers Leafworm Lygus Bugs Thrips Whiteflies	1.5 - 4 pts.	Use higher listed rates for larger insects or heavy infestations. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2.5 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 48 hours
Cotton Fleahoppers	1 - 1.5 pts.	
Boll Weevil	2 - 4 pts.	
Lygus Bugs Thrips	4 pts.	

Currant

Pests Controlled	Rate/Acre	Application Instructions
Rose Chafer Mites	2 pts.	Application rates are based on a standard dilution rate of 200 (ground) gallons of water per acre. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Dandelion

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2

		<ul style="list-style-type: none"> • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 24 hours
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Eggplant

Pests Controlled	Rate/Acre	Application Instructions
Aphids Spider Mites	1.6 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.56 lbs. a.i./A • Maximum Number of Applications per Year: 4 • Minimum Application Interval: 5 days • Minimum Pre-Harvest Interval: 3 days • Restricted-Entry Interval: 12 hours

Endive (Escarole)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Spider Mites	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 24 hours

Figs

Pests Controlled	Rate/Acre	Application Instructions
Dried Fruit Beetle Vinegar Flies	3.2 pts.* or 2.4 pts.** + 1 - 2 gals. sulfured molasses	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 2 lbs. a.i./A* or 1.5 lbs. a.i./A** • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 5 days • Minimum Pre-Harvest Interval: 5 days • Restricted-Entry Interval: 24 hours* or 12 hours**

Garlic

Pests Controlled	Rate/Acre	Application Instructions
Aphids Thrips	1.5 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.56 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 3 days • Restricted-Entry Interval: 24 hours

Grains, Stored (Barley, Corn, Oats, Rye, and Wheat)

Pests Controlled	Rate/Acre	Application Instructions
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	Mix 8 pts./ 25 gals. of water. Apply 3 gals. per 1,000 ft.	<p>Before applying spray, clean thoroughly. Remove and burn all sweeping and debris. For a residual wall, floor and machinery spray in grain elevators and silos, before loading grain, make a thorough application.</p> Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 0.6 lbs. a.i./1,000 ft. • Maximum Number of Applications per Year: 1 per storage period • Minimum Application Interval: N/A • Minimum Pre-Harvest Interval: N/A • Restricted-Entry Interval: 12 hours • DO NOT apply directly to grain.

Grapes (Raisin, Table, Wine) and Grape Vines (Overwintering on Nursery Stock Only)

Drosophila European Fruit Lecanium* Japanese Beetle Leafhoppers Spider Mites Terrapin Scale	3 pts.	Application rates are based on a standard dilution rate of 200 (ground) gallons of water per acre. Injury may occur on grapes of Almeria, Cardinal, Italia, and Ribier varieties when sprays containing Sharda Malathion 57% EC are applied after clusters appear.
Mealybugs	1.5 pts.	Remove excess soil from roots and submerge entire root system in the Sharda Malathion 57% EC solution for 5 minutes.
Grape Phylloxera	3 pts. per 200 gals.	<p>Agitate solution at all times.</p> Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.88 lbs. a.i./A

		<ul style="list-style-type: none"> Maximum Number of Applications per Year: 2 Minimum Application Interval: 14 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 3 days for girdling and tying and 24 hours for all other activities. <p>*Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom.</p>
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Grass, Forage, and Hay (Bermuda, Barnyardgrass, Canarygrass, Fescue, Orchardgrass, Red Top, Timothy, and Yellow Foxtail)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cereal Leaf Beetle Grasshoppers Leafhoppers	2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 4 per cutting Minimum Application Interval: 14 Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 12 hours

Guava

Pests Controlled	Rate/Acre	Application Instructions
Drosophila	1.5 - 2 pts.	Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 13 Minimum Application Interval: 3 days Minimum Pre-Harvest Interval: 2 days Restricted-Entry Interval: 12 hours

Hops

Pests Controlled	Rate/Acre	Application Instructions
Aphids Spider Mites	1 pt.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 0.63 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 10 days Restricted-Entry Interval: 12 hours

Horseradish

Pests Controlled	Rate/Acre	Application Instructions
Aphids Diamondback Moth Flea Beetles Leafhoppers	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours

Kale

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Diamondback Moth Imported Cabbageworm Webworm	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 3 Minimum Application Interval: 5 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 12 hours

Kohlrabi

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Diamondback Moth Flea Beetle Imported Cabbageworm Webworm	1-2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 24 hours

Leek

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 - 2.5 pts.	Restrictions:

Onion Maggot Flies		<ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 24 hours
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Lespedeza

Pests Controlled	Rate/Acre	Application Instructions
Alfalfa Caterpillars* Alfalfa Weevil Larvae** Aphids Grasshoppers Leafhoppers Lygus Bugs	2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2, 1 per cutting Minimum Application Interval: 14 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 12 hours DO NOT apply to Lespedeza in bloom. <p>*Apply when larvae are small. **Apply when day temperature is expected to be above 65°F and when 50-70% of leaves show damage.</p>

Lettuce (Head)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Leafhoppers	3 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.88 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 6 days Minimum Pre-Harvest Interval: 14 days Restricted-Entry Interval: 24 hours
Cabbage Looper Spider Mites	2.5 - 3 pts.	

Lettuce (Leaf)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Leafhoppers	3 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.88 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 5 days Minimum Pre-Harvest Interval: 14 days Restricted-Entry Interval: 24 hours
Cabbage Looper Spider Mites	2.5 - 3 pts.	

Macadamia Nut

Pests Controlled	Rate/Acre	Application Instructions
Green Stink Bugs	1.5 pts.	Restrictions: <ul style="list-style-type: none"> DO NOT apply more than 5.6 lbs. of actual Sharda Malathion 57% EC per acre to macadamia nut trees. Maximum Single Application Rate: 0.94 lb. a.i./A Maximum Number of Applications per Year: 6 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Mango

Pests Controlled	Rate/Acre	Application Instructions
Drosophila	1.5 pts.	<p>Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.</p> Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 0.94 lb. a.i./A Maximum Number of Applications per Year: 13 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Melons (Other than Watermelon)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cucumber Beetles Leaf Miners Leafhoppers Pickleworms Spider Mites Squash Vine Borer	1.6 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Mint

Pests Controlled	Rate/Acre	Application Instructions
Aphids Caterpillars Flea Beetles Leafhoppers Spider Mites	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 0.84 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 12 hours

Mustards (Mustard Greens, Mustard Spinach, and Chinese Mustard Mizuna)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Diamondback Moth Imported Cabbageworm Webworm	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 3 Minimum Application Interval: 5 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 12 hours

Nectarines

Pests Controlled	Rate/Acre	Application Instructions
Plum Curculio Spider Mites	1 - 2 pts.	Application rates are based on a standard dilution rate of 300 (ground) gallons of water per acre.
Aphids* Japanese Beetles*	4 - 4.8 pts.	Sharda Malathion 57% EC may cause fruit spotting on nectarines. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 3 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. <p>*May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions.</p>

Oats

Pests Controlled	Rate/Acre	Application Instructions
Cereal Leaf Beetle English Grain Aphids Grasshoppers (Young) Greenbugs	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 12 hours

Okra

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.2 lbs. a.i./A Maximum Number of Applications per Year: 4 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 days Restricted-Entry Interval: 12 hours
Japanese Beetle	1.9 pts.	

Onion (Bulb and Green)

Pests Controlled	Rate/Acre	Application Instructions
Onion Maggots	1.5 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 12 hours
Onion Thrips	1.5 - 2 pts.	

Papaya

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 - 2 pts.	Restrictions:

Mealybugs		<ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 8 Minimum Application Interval: 3 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours
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Parsley

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Diamondback Moth Flea Beetle Imported Cabbageworm Webworm	1.5 - 2.4 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.5 lbs. a.i./A Maximum Number of Applications per Year: 4 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours

Parsnip

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Diamondback Moth Flea Beetle Imported Cabbageworm Webworm	1.5 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours

Passion Fruit

Pests Controlled	Rate/Acre	Application Instructions
Drosophila	1.5 pts.	Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 13 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 12 hours

Peaches

Pests Controlled	Rate/Acre	Application Instructions
Black Cherry Aphid Black Peach Aphid European Red Mite Green Peach Aphid Japanese Beetle Rusty Plum Aphid Spider Mite	2.4 pts.	Application rates are based on a standard dilution rate of 300 (ground) gallons of water per acre. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 3 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 11 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours DO NOT apply more than 9 lbs. of actual Sharda Malathion 57% EC per acre to peach trees. DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.
Cottony Peach Scale European Fruit Lecanium Oriental Fruit Moth Plum Curculio Terrapin Scale	4.8 pts.	

Pears

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1 pt.	Application rates are based on a standard dilution rate of 300 (ground) gallons of water per acre. Injury may occur under certain conditions on Bosc pears.
Mealybugs Mites Pear Psylla	1 - 2 pts.	
Codling Moth Fruittree Leafroller Plum Curculio Red-Banded Leafroller	2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete.

Peas (Dried, Green)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Pea Weevils	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 12 hours

Pecans

Pests Controlled	Rate/Acre	Application Instructions
Aphids Mites Pecan Bud Moth Pecan Leaf Casebearer** Pecan Nut Casebearer** Pecan Phylloxera* Spider Mites Walnut Husk Fly**	1.5 - 2 pts.	<p>Application rates are based on a standard dilution rate of 500 (ground) gallons of water per acre for mature trees 25 - 35 feet high.</p> Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2.5 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours DO NOT apply this product within 3 days prior to bloom, during bloom, or until petal fall is complete. <p>*Apply when buds begin to develop. **Apply when first generation eggs begin to hatch.</p>

Peppers

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 5 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 12 hours
Pepper Maggots	2.5 pts.	

Pineapple

Pests Controlled	Rate/Acre	Application Instructions
Mealybugs	3.2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2 lbs. a.i./A Maximum Number of Applications per Year: 3 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 24 hours

Potatoes

Pests Controlled	Rate/Acre	Application Instructions
Aphids Grasshoppers Leafhoppers	2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 12 hours
False Chinch Bug	1.5 pts.	
Mealybugs	2 - 2.5 pts.	

Pumpkins

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Radish

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days

		<ul style="list-style-type: none"> • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours
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Rutabagas

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours

Rice and Rice (Wild)

Pests Controlled	Rate/Acre	Application Instructions
Rice Leaf Miner Rice Stink Bug	2 pts.	<p>Treat for leafminers shortly after first rice blades appear on surface of the water.</p> <p>For leafminers, apply when the eggs and larvae are abundant on the seedling rice.</p> <p>Apply during early milk and dough stage using a minimum of 2 (aerial) gallons of water per acre.</p> Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours • DO NOT apply Propanil within 15 days of malathion treatment. • A 24-hour holding time is required before floodwaters may be released after treatment to rice. • NOTE FOR AQUATIC USES (rice): 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.

Rye

Pests Controlled	Rate/Acre	Application Instructions
Cereal Leaf Beetle	1 - 1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours
English Grain Aphids Grasshoppers (Young) Greenbugs	1.5 pts.	

Salsify

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Looper Carrot Weevil Flea Beetles Imported Cabbage Worm Leafhoppers Spider Mites Thrips	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.25 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 24 hours

Shallot

Pests Controlled	Rate/Acre	Application Instructions
Aphids Thrips	2.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.56 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 3 days • Restricted-Entry Interval: 24 hours

Sorghum

Pests Controlled	Rate/Acre	Application Instructions
Greenbugs	1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2

		<ul style="list-style-type: none"> • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours
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Spinach

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 7 days • Restricted-Entry Interval: 12 hours

Squash (Summer)

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cucumber Beetle Cut Worms Darkling Ground Beetle Leaf Miners Leafhoppers Pickleworms Spider Mites Squash Vine Borer Thrips	2.8 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.75 lbs. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 1 day • Restricted-Entry Interval: 24 hours

Squash (Winter)

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 3 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 1 day • Restricted-Entry Interval: 12 hours

Strawberry

Pests Controlled	Rate/Acre	Application Instructions
Aphids Field Crickets Lygus Bugs Potato Leafhopper Spider Mites Spittle Bugs Strawberry Leafroller Strawberry Root Weevil Thrips Thrips White Flies	1.5 - 3.2 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 2 lbs. a.i./A • Maximum Number of Applications per Year: 4 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 3 days • Restricted-Entry Interval: 12 hours

Sweet Potatoes

Pests Controlled	Rate/Acre	Application Instructions
Leafhoppers Morningglory Leaf Miner	1.5 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1.56 lbs. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 0 days • Restricted-Entry Interval: 12 hours

Swiss Chard

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> • Maximum Single Application Rate: 1 lb. a.i./A • Maximum Number of Applications per Year: 2 • Minimum Application Interval: 7 days • Minimum Pre-Harvest Interval: 14 days • Restricted-Entry Interval: 12 hours

Tomatoes, Tomatillos

Pests Controlled	Rate/Acre	Application Instructions
Aphids spider Mites	1.5 pts.	Apply a full coverage application to fruit and foliage. Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 4 Minimum Application Interval: 5 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours DO NOT apply within 1 day of harvest.
Drosophila	2.5 pts.	

Trefoil (Birdsfoot)

Pests Controlled	Rate/Acre	Application Instructions
Alfalfa Weevil (Larvae) Aphids Grasshoppers Lygus Bugs Pea Aphid Potato Leaf Hoppers Spider Mites Spittlebugs Stink Bugs	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2, 1 per cutting Minimum Application Interval: 14 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 12 hours
Clover Leaf Weevil	1.5 pts.	
Armyworms Vetch Bruchid	2 pts.	

Turnips

Pests Controlled	Rate/Acre	Application Instructions
Aphids Cabbage Loopers Carrot Weevil Imported Cabbageworm	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 5 days for turnip greens and 7 days for turnip root. Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Vetch

Pests Controlled	Rate/Acre	Application Instructions
Alfalfa Weevil (Larvae) Aphids Armyworms Clover Leaf Weevil Grasshoppers Lygus Bugs Omnivorous Leaf Tier Pea Aphid Pea Aphid Potato Leafhoppers Spider Mites Spittlebugs Vetch Bruchid	1 - 2 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.25 lbs. a.i./A Maximum Number of Applications per Year: 2, 1 per cutting Minimum Application Interval: 14 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 12 hours

Walnuts

Pests Controlled	Rate/Acre	Application Instructions
Aphids European Red Mites Walnut Aphid Walnut Husk Fly	4 pts.	Applications may be made using conventional ground sprayer or air-carrier type sprayer (500 gals. of water per acre). Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 2.5 lbs. a.i./A Maximum Number of Applications per Year: 3 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 24 hours

Watercress

Pests Controlled	Rate/Acre	Application Instructions
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Aphids	1.6 - 2 pts.*	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.0 lbs. a.i./A or 1.25 lb. a.i./A* Maximum Number of Applications per Year: 5 Minimum Application Interval: 3 days Minimum Pre-Harvest Interval: 3 days Restricted-Entry Interval: 12 hours or 24 hours* DO NOT apply when water is on the field DO NOT irrigate until 24 hours after application.
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Watermelons

Pests Controlled	Rate/Acre	Application Instructions
Aphids	1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 1 day Restricted-Entry Interval: 12 hours

Wheat (Spring and Winter)

Pests Controlled	Rate/Acre	Application Instructions
Cereal Leaf Beetle	1 - 1.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1 lb. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 7 days Restricted-Entry Interval: 12 hours
English Grain Aphids Grasshoppers (Young) Greenbugs	1.5 pts.	

Yams

Pests Controlled	Rate/Acre	Application Instructions
Leafhoppers	1.5 - 2.5 pts.	Restrictions: <ul style="list-style-type: none"> Maximum Single Application Rate: 1.56 lbs. a.i./A Maximum Number of Applications per Year: 2 Minimum Application Interval: 7 days Minimum Pre-Harvest Interval: 0 days Restricted-Entry Interval: 24 hours

NON-AGRICULTURAL USE SITES

Site	Rate/Acre	Maximum Single Application Rate	Restrictions	Restricted Entry Interval
Christmas Tree Plantations	82 fl. oz.	3.2 lbs. a.i./A	Maximum of 2 applications per year; minimum retreatment interval is 7 days; aerial application is prohibited; DO NOT apply more than two applications per year.	12 hours
Fence Rows/Hedge Rows*	6 fl. oz.	0.0054 lb. a.i./1,000 ft. ²		
Ornamental and/or Shade Trees	64 fl. oz.	2.5 lbs. a.i./100 gals.	Maximum of 2 applications per year; 10-day minimum re-treatment interval.	12 hours
Ornamental Herbaceous Plants	64 fl. oz.	2.5 lbs. a.i./100 gals.	Maximum of 2 applications per year; 10-day minimum re-treatment interval.	12 hours
Ornamental Non-Flowering Plants	64 fl. oz.	2.5 lbs. a.i./100 gals.	Maximum of 2 applications per year; 10-day minimum re-treatment interval.	12 hours
Ornamental Woody Shrubs and Vines	64 fl. oz.	2.5 lbs. a.i./100 gals.	Maximum of 2 applications per year; 10-day minimum re-treatment interval.	12 hours
Pine Seed Orchards	82 fl. oz.	3.2 lbs. a.i./A	Maximum of 2 applications per year/growing season; 7-day minimum re-treatment interval.	12 hours

*Uncultivated areas and fence rows/hedge row agricultural uses and Non-agricultural right of way/hedgerow uses are limited to State and Federal Programs only.

Directions for Use

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 avoiding applications to flowering plants. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

Additional Restrictons for Non-Agricultural Uses

- 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 or irrigate to the point of runoff.

Additional Restrictions for Commercial Nurseries for Ornamental Plants, Vines, Shrubs and Ornamental/Shade Trees:

- Aerial application is prohibited.
- **DO NOT** apply more than two applications per year.
- Minimum re-treatment interval is 10 days.
- This product is to be used for spot treatment only.

Additional Precautions and Restrictions for Pine Seed Orchard:

- For use in slash pine seed orchards in Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Texas only.
- Malathion may be used to control thrips from mid-December to mid-March.
- **DO NOT** apply more than two applications per year.
- Minimum retreatment interval is 7 days.
- **DO NOT** apply by ground within 25 feet or by air within 50 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).
- For airblast applications, user must turn off outward pointing nozzles at row ends and when spraying outer row.
- For 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 use ½ swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when the wind speed is greater than 10 mph.
- Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (per ASABE S572 for ground and ASABE S641 for aerial).
- **DO NOT** apply during temperature inversions.

FLY CONTROL

For use on the lower outside foundation of farm buildings and structures where livestock are maintained and flies congregate and breed.

Pest Controlled	Rate	Application Instructions
Adult Flies	Straight Sprays: 5 tablespoons + 1 gal. water or 1 cup + 2.5 gals. water or 1 qt. + 12 gals. water	Apply as a spray at the rate of 1 gal. per 1,000 sq. ft. on painted surfaces and 2 gals. per 1,000 sq. ft. on unpainted surfaces where flies alight or congregate.
Adult Flies Fly Maggots	Bait Sprays: 5 tablespoons + (7 tablespoons sugar or molasses (unsulfurized) or corn syrup) + 2.5 gals. water or 1 cup + (1 cup sugar or molasses (unsulfurized) or corn syrup) + 2.5 gals. water or 1 qt. + (2.5 lbs. sugar or 1 qt. molasses (unsulfurized) or 1 qt. corn syrup) + 12 gals. water	Apply as a bait spray. DO NOT apply to freshly whitewashed surfaces. Wait 14 days after whitewashing before applying.

Repeat applications as necessary. Avoid applying oil-based formulations to valuable ornamental plants as injury may occur.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in the original unopened container in a secure, dry place. **DO NOT** contaminate with other pesticides 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: Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[Less Than or Equal to 5 Gallons] [Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse or pressure 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 incineration.]

[Greater Than 5 Gallons] [Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure 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. Dispose of empty container in a sanitary landfill or by incineration.]

[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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2	[Handle with Care]
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