



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

83529-408

Date of Issuance:

8/26/26

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

SHARDA FENPYROXIMATE 5% EC

Name and Address of Registrant (include ZIP Code):

Sharda USA LLC
c/o Ag-Chem Consulting
12644 Chapel Rd
Clifton, VA 20124

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

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

Continues page 2

Signature of Approving Official:

Elizabeth Fertich, Product Manager 04
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)

Date:

8/26/26

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-408."
3. 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 these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. 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 04/03/2026

If you have any questions, please contact Eric Ingram or at Ingram.eric@epa.gov.

Enclosure

{MASTER LABEL}

FENPYROXIMATE GROUP 21A INSECTICIDE

Sharda Fenpyroximate 5% EC

[ABN: KITA EC Insecticide]

ACTIVE INGREDIENTS:**WT. BY %**

Fenpyroximate: Benzoic acid, 4-[[[(E)-[(1,3-dimethyl-5-phenoxy-1H-pyrazol-4-yl)methylene] amino]oxy]methyl]-,1,1-dimethylethyl ester..... 5.0%

OTHER INGREDIENTS*: 95.0%

TOTAL: 100.0%

Contains 0.42 lb. active ingredient per U.S. gallon

*Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCIÓN

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	
IF SWALLOWED:	- Immediately call a poison control center or doctor. DO NOT give any liquid to the person. DO NOT induce vomiting unless told to do so by the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	- 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:	- Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. - Call a poison control center or doctor for further treatment advice.
IF IN EYES:	- 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.
HOTLINE NUMBERS	
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. For general information about this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at http://npic.orst.edu.	
NOTE TO PHYSICIAN	
Contains petroleum distillates. Vomiting may cause aspiration pneumonia.	

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

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

EPA Reg. No.: 83529-UNI

Manufactured For [By]:

Manufactured for:

Sharda USA LLC



7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

ACCEPTED

08/26/2026

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

EPA Reg. No. 83529-408

EPA Est. No.: XXXXX-XX-XXX

Net Contents: _____ [Gals./L]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION / PRECAUCIÓN

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate or Viton $\geq$ 14 mils. Protective eyewear (such as safety glasses, goggles, or face shield)
- Shoes plus socks

USER SAFETY REQUIREMENTS

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.-Users should 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 very highly toxic to fish and aquatic invertebrates. For terrestrial uses: **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having medium to high potential for reaching both surface water and aquatic sediment via runoff for several weeks after application. 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 loading of this chemical from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

MINIMUM HONEY BEE TOXICITY

Fenpyroximate is practically nontoxic to bees through acute contact and acute oral exposure when applied to listed crops according to the label directions.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

ENDANGERED SPECIES PROTECTION REQUIREMENTS

This product may have effects on endangered species. 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. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product.

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) of 12 hours**.

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Coveralls
- Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber, or Viton)
- Protective eyewear (such as safety glasses, goggles, or face shield)
- Shoes and socks

PRODUCT INFORMATION

Sharda Fenpyroximate 5% EC is used for the control of leafhoppers, mealybugs, mites, psylla, psyllids, and whiteflies. **Sharda Fenpyroximate 5% EC** stops mite feeding immediately after application. **Sharda Fenpyroximate 5% EC** controls all motile stages of mites by inhibiting cellular respiration in the mitochondrion of cells which results in rapid cessation of all biological activities including feeding and reproduction. Mortality of mites can be observed within 3-7 days after intoxication.

Sharda Fenpyroximate 5% EC works primarily through contact action, so thorough spray coverage is necessary. Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes accordingly. Treat plants when pests are immature or at a susceptible stage and populations are building, before crop damage occurs.

Target Species		
Apple rust mite*	Cyclamen mite	Plum nursery mite
Asian citrus psyllid	European red mite	Potato leafhopper
Avocado Brown mite	Glassy-winged sharpshooter*	Powdery Mildew*
Banks grass mite	Grape leafhopper	Six spotted mite
Broad mite	Hazelnut-Filbert bud mite	Strawberry spider mite
Carmine mite	McDaniel mite	Texas citrus mite
Citricola scale	Mealybug species	Tomato (Potato) psyllid
Citrus bud mite	Mint bud mite	Tomato russet mite
Citrus flat mite	Pacific spider mite	Two-spotted spider mite
Citrus leafminer*	Pear psylla	Variegated leafhopper
Citrus red mite	Pear rust mite	White apple leafhopper
Citrus rust mite	Pecan leaf scorch mite	Whiteflies*
Citrus thrips*	Persea mite	Willamette spider mite
*suppression		

APPLICATION DIRECTIONS

- Make applications immediately after the spray solution is prepared.
- Apply with properly calibrated spray equipment.
- Apply by ground or air using the water spray volume found in the **DIRECTIONS FOR USE** section of this label.
- **DO NOT** apply **Sharda Fenpyroximate 5% EC** through any type of irrigation system except those described in the **CHEMIGATION** section.
- For aerial equipment, use larger droplet size (greater than 200 microns).
- Thorough spray coverage is essential for mite and insect control.
- For best results, apply when pest populations are beginning to build, before reaching economic thresholds. Consult your local agricultural advisor or state cooperative extension service for further information.

CHEMIGATION

For Chemigation Use On Field Corn, Popcorn, Silage Corn, Seed Corn; Potato

- Apply this product alone or in combination with other products which are registered for application through irrigation systems.
- Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. **DO NOT** apply this

product through any other type of irrigation system.

- Crop injury, lack of performance, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Chemigation Systems Connected to Public Water Systems

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

Sprinkler Chemigation

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Calibration and Application Instructions

Apply **Sharda Fenpyroximate 5% EC** under the schedule specified in the **Field Corn, Popcorn, Silage Corn, Seed Corn; and Potato Use Directions**, not according to the irrigation schedule unless the events coincide.

The following calibration and application techniques are provided for user reference, but **DO NOT** constitute a warranty of fitness for application through sprinkler irrigation equipment. Check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

(1) Use only drive systems which provide uniform water distribution. (2) **DO NOT** use end guns when chemigating with **Sharda Fenpyroximate 5% EC** to avoid non-uniform application. (3) Plug the first nozzle closest to the well head to protect the water source.

1. Determine the size of the area to be treated.
2. Determine the time required to apply $\frac{1}{4}$ - $\frac{1}{2}$ inch water over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. Run the system at 80 - 95% of the

manufacturer's rated maximum travel speed.

3. Using water, determine the injection pump output when operated at normal line pressure.
4. Determine the amount of **Sharda Fenpyroximate 5% EC**, and any tankmix partners, required to treat the area covered by the irrigation system.
5. Add the required amount of **Sharda Fenpyroximate 5% EC**, any tankmix partners, and sufficient water to meet the injection time requirements to the solution tank. (See **MIXING DIRECTIONS** section of this label).
6. Make sure the system is fully charged with water before starting injection of the **Sharda Fenpyroximate 5% EC** solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
7. Maintain constant agitation in the solution tank during the injection period.
8. Inject the specified amount of **Sharda Fenpyroximate 5% EC** per acre continuously for one complete revolution of the system.
9. Stop the injection equipment after treatment is completed. Continue to operate the system until the **Sharda Fenpyroximate 5% EC** solution has cleared all the sprinkler heads.
10. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a continuous 20-40 minute time interval.
3. Determine the amount of **Sharda Fenpyroximate 5% EC** required to treat the area covered by the irrigation system.
4. Add the required amount of **Sharda Fenpyroximate 5% EC**, and any other tankmix partners, into the same quantity of water used to calibrate the injection period. (See **MIXING DIRECTIONS** section of this label).
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject specified amount of **Sharda Fenpyroximate 5% EC** per acre for: (1) a continuous 20-40 minute period at the end of a regular irrigation set, or, (2) as a continuous 20-40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the pesticide by the foliage.
7. Maintain constant agitation in the solution tank during the injection period.
8. Stop injection equipment after treatment is completed. Continue to operate the system until the **Sharda Fenpyroximate 5% EC** solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

USE OF ADJUVANTS

When thorough coverage is a concern, use a spray adjuvant to maximize uniformity of coverage and performance of **Sharda Fenpyroximate 5% EC**. Use a non-ionic activator type wetting, spreading or penetrating adjuvant or horticultural spray oil adjuvant. **DO NOT** use a dormant oil, or binder or sticker-type adjuvant. Use non-ionic adjuvants (NIS) containing at least 75% surfactant. Use crop oil concentrates (COC), methylated seed or vegetable oils (MSO), organosilicone products (OS), or blends of these adjuvants containing at least 15% emulsifier/surfactant. Check compatibility of any adjuvant used with **Sharda Fenpyroximate 5% EC** before using. Follow the Directions for Use on each adjuvant product label for rates of use and use restrictions.

APPLICATION RESTRICTIONS

- **DO NOT** apply within 75 feet of fish-bearing waters.
- Use by air on citrus is limited to the states of Florida and Texas.
- For aerial use on citrus in the state of Florida, **DO NOT** apply within 150 feet of all aquatic areas.
- **DO NOT** use products with the same mode of action in consecutive applications.
- **DO NOT** plant rotational crops other than those listed on this label for 30 days following the last application of this product.
- **DO NOT** apply by Alternate Row Middle (ARM) spray method.

FENPYROXIMATE

GROUP

21A

INSECTICIDE

RESISTANCE MANAGEMENT

For resistance management, **Sharda Fenpyroximate 5% EC** contains a Group 21A miticide/ insecticide. Any insect/mite population may contain individuals naturally resistant to **Sharda Fenpyroximate 5% EC** and other Group 21A insecticides/ acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/ acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of **Sharda Fenpyroximate 5% EC** or other Group 21A insecticides/ acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. **DO NOT** rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.

- Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
- When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for 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.
- Report lack of performance to registrant or their representative.

MIXING DIRECTIONS

Sharda Fenpyroximate 5% EC Alone: Shake well before using. Begin with clean equipment. Fill spray tank with $\frac{3}{4}$ of the amount of water needed for the intended application and then turn on agitation. Pour the product on the surface of water in the spray tank. Add the balance of the water to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load. When using a closed loading system, rinse the extraction probe within the pesticide container prior to removal of the probe.

Sharda Fenpyroximate 5% EC Tank Mixtures: Shake well before using. Read and follow all label directions for each tank mix product prior to any tank mixing with **Sharda Fenpyroximate 5% EC**. This product can be mixed with other registered pesticides for use on labeled crops or sites, in accordance with the most restrictive use directions and precautions. Follow all use directions as listed above under **Sharda Fenpyroximate 5% EC** alone with the following exception: after the **Sharda Fenpyroximate 5% EC** is thoroughly mixed and the tank is $\frac{3}{4}$ full, add wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product as specified on their labels while maintaining agitation. Then continue adding water to the tank to achieve the desired level, while maintaining agitation. When using a closed loading system, rinse the extraction probe within the pesticide container prior to removal of the probe.

If you have no experience with the combination you are considering, conduct a test to determine physical compatibility. To determine physical compatibility, add the proportions of each chemical with the proportion of water specified on the label as will be present in the chemical supply tank into a suitable container, mix thoroughly, and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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. For all applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1 standard). 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

Apply with the nozzle height recommended by the manufacturer but no more than 3 feet above the ground or crop canopy. For ground equipment, the boom needs to be level with the crop and have minimal bounce.

NOZZLE ORIENTATION - Aircraft

Nozzles must be oriented so the spray is directed toward the back of the aircraft. Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.

RELEASE HEIGHT - Aircraft

DO NOT release spray at a height greater than 10 feet above the vegetative canopy unless a greater application height is necessary for pilot safety. Applications more than 10 feet above the vegetative canopy increases the potential for spray drift.

BOOM LENGTH - Aircraft

The boom length must not exceed 75% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters. Using shorter booms decreases drift potential. Applicators must use ½ swath displacement upwind at the downwind edge of the field for aerial applications and apply only when wind speed is 3 to 10 mph.

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.

WIND

To avoid spray drift, **DO NOT** apply when wind speed is greater than 10 mph. Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

To avoid spray drift, **DO NOT** apply during periods of temperature inversions. Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperatures 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.

SENSITIVE AREAS

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

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment manual to determine if use of an air assisted sprayer is required.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management practices already described, the following specific practices will further reduce the potential for drift:

- Adjust the deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- **DO NOT** allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

APPLICATION RATE CHART FOR SHARDA FENPYROXIMATE 5% EC

ALMOND; PISTACHIO

(Use Permitted West of the Mississippi River Only)

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.5 to 3.8 pints (0.08 to 0.20 lb. a.i.)	WEST OF THE MISSISSIPPI RIVER - Apply by ground using a minimum of 100 gallons of water per acre. - Apply by air using a minimum of 10 gallons of water per acre. - Allow 14 days between applications. - Preharvest Interval (PHI): 14 days.
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 7.6 pints (0.40 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

BANANA

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 70 gallons of water per acre. - Allow 7 days between applications. - Preharvest Interval (PHI): 7 days.
Whiteflies*		
*suppression		
USE RESTRICTIONS		
DO NOT apply by air. DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

BEAN, SUCCULENT

bean, snap; blackeyed pea, succulent shelled; broad bean, succulent shelled; chickpea, succulent shelled; cowpea, succulent shelled; crowder pea, succulent shelled; goa bean, succulent shelled; lablab bean, succulent shelled; lima bean, succulent shelled; succulent bean, succulent shelled; southern pea, succulent shelled; soybean, edible, succulent shelled; and velvet bean, succulent shelled

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	- Apply by ground using a minimum of 30 gallons of water per acre. - Apply by air using a minimum of 5 gallons of water per acre. - Allow 14 days between applications. - Preharvest Interval (PHI): 1 day.
Whiteflies*		
*suppression		
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

BERRY SUBGROUP, LOW-GROWING (CROP SUBGROUP 13-07G) EXCLUDING CRANBERRY

bearberry; bilberry; blueberry, lowbush; cloudberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 25 gallons of water per acre. - When using an electro-static sprayer, less than 25 gallons of water per acre may be used; however, DO
Whiteflies*		

		NOT use less than 10 gallons of water per acre. - Allow 14 days between applications. - Preharvest Interval (PHI): 1 day.
*suppression - Temporary pinking of immature green berries may be observed after a Sharda Fenpyroximate 5% EC application on certain strawberry varieties. This effect is transient and does not affect fruit sizing, color, or quality. - Avoid puddling of spray solution on plastic mulch as this can potentially result in underside scarring of fruit in direct contact with the plastic.		
USE RESTRICTIONS		
DO NOT apply by air. DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

BUSHBERRY SUBGROUP (CROP SUBGROUP 13-07B) EXCLUDING Highbush Cranberry

Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Whiteflies*	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 25 gallons of water per acre. - When using an electro-static sprayer, less than 25 gallons of water per acre may be used; however, DO NOT use less than 10 gallons of water per acre. - Allow 14 days between applications. - Preharvest Interval (PHI): 1 day
*suppression		
USE RESTRICTIONS		
DO NOT apply by air. DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

CANEBERRY SUBGROUP (CROP SUBGROUP 13-07A)

Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora); raspberry, black and red; wild raspberry; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Willamette spider mite	1.5 to1.9 pints (0.08 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 30 gallons of water per acre. • For vines with a heavy canopy, or in high pressure situations, higher water volumes are recommended. • Allow 14 days between applications. • Pre-harvest Interval (PHI): 1 day
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	
Mealybugs		
Powdery Mildew*		
Leafhopper	0.95 to 1.9 pints ¹ (0.05 to 0.10 lb. a.i.)	
Whiteflies	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	
suppression		
¹ Use 2.0 pints (0.10 lb. a.i.) per acre for dense foliage. Best control of leafhoppers is achieved by applications when majority of the population is in an immature development stage.		
USE RESTRICTIONS		
• DO NOT apply by air.		

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply more than 3.8 pints (0.20 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

CITRUS FRUIT GROUP (CROP GROUP 10-10)

Australian desert lime; Australian finger lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin, clementine); tangor; trifoliate orange; uniq fruit; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Citrus rust mite ¹	3.8 pints (0.20 lb. a.i.)	All geographies: • Apply by ground using a minimum of 100 gallons of water per acre. For full size trees, use a minimum of 200 gallons of water per acre. • When applying by air (in Florida and Texas only), use a minimum of 10 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 3 days.
Asian citrus psyllid ²	1.9 to 3.8 pints (0.10 to 0.20 lb. a.i.)	
Citrus leafminer*		
Citrus thrips*		
Leafhoppers		
Mealybugs		
Other Mites (see Target Species)		

*suppression

¹Control on citrus fruit limited up to 14 days.

²For best results, use for control of adults and nymphs present at time of application when newly expanding foliage flush is present.

USE RESTRICTIONS

- **DO NOT** apply by air except in Florida and Texas.
- For aerial application to citrus in Florida, **DO NOT** apply within 150 feet of all aquatic areas.
- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply to citrus nurseries or citrus in greenhouses.
- **DO NOT** apply more than 3.8 pints (0.20 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

COTTONSEED SUBGROUP (CROP SUBGROUP 20C)

Cottonseed; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	Early season ¹ (when cotton is less than 10-inches in height)	• Apply by ground using a minimum of 10 gallons of water per acre • Apply by air using a minimum of 3 gallons of water per acre. • As canopy density increases use of higher water volume will assure better coverage. • Allow 14 days between applications. • Preharvest Interval (PHI): 14 days.
	0.38 to 0.95 pint ² (0.02 to 0.05 lb. a.i.)	
	Mid-season (when cotton is more than 10-inches in height)	
	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	
Whiteflies*	1.9 pints (0.10 lb. a.i.)	

*suppression

¹For early season use, when cotton is less than 10 inches in height, **Sharda Fenpyroximate 5% EC** may also be applied as a directed spray using ground spray equipment.

²When applying by ground equipment apply as a directed spray for best results.

USE RESTRICTIONS

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply more than 1.9 pints (0.10 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

FIELD CORN, POPCORN, SILAGE CORN, SEED CORN**(limited to States of Arizona, California, Colorado, Hawaii, Kansas, New Mexico, Oklahoma, and Texas)**

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 10 gallons of water per acre. • Apply by air using a minimum of 5 gallons of water per acre. • Apply by chemigation using a minimum of 0.10 to 0.25 acre-inches of water (see CHEMIGATION for additional information). • Allow 14 days between applications. • Preharvest Interval (PHI): 14 days for forage, silage, stover, and grain.

USE RESTRICTIONS

- **DO NOT** apply more than 3.8 pints (0.20 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

FRUITING VEGETABLE GROUP (CROP GROUP 8-10)

African eggplant; bush tomato; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; pepper, bell; pepper, nonbell; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 20 gallons of water per acre. • Apply by air using a minimum of 5 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 1 day.
Tomato (Potato) Psyllid		
Whiteflies*		

*Control on tomato in Florida only. Suppression only on all other crops.

USE RESTRICTIONS

- **DO NOT** apply through any type of irrigation system.
- **DO NOT** apply more than 3.8 pints (0.20 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

HOPS*

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 to 2.9 pints (0.10 to 0.15 lb. a.i.)	• Apply by ground using a minimum of 100 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 14 days • For best results, apply before mite populations exceed 5 mites per leaf.

***NOTE:** Leaf yellowing may occur when **Sharda Fenpyroximate 5% EC** is combined with spray oil in excess of 1% of the spray volume. If this symptom occurs, it is usually more pronounced on newly expanding leaves. This symptom may occur in plants under stress and is worsened by certain conditions including the following:

- High Temperatures (air temperatures exceeding 90°F at the time of application or within a few days after application).
- Wet soil conditions and high humidity (rainy, misty, or foggy weather within a few days after application).
- Storm damage (including hail and wind).

USE RESTRICTIONS

- **DO NOT** apply by air.
- **DO NOT** apply through any type of irrigation system.

- **DO NOT** apply more than 5.7 pints (0.30 lb. a.i.) per acre per year.
- **DO NOT** make more than 2 applications per year.

LEAF PETIOLE VEGETABLE SUBGROUP (CROP SUBGROUP 22B)

Cardoon; celery; celery, Chinese; fuki; rhubarb; udo; zuiki; cultivars, varieties, and hybrids of these commodities

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 25 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 1 day.
Whiteflies*		
*suppression		
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

MAMEY SAPOTE; SAPODILLA

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 95 gallons of water per acre. • Apply by air using a minimum of 50 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 1 day.
Whiteflies*		
*suppression		
USE RESTRICTIONS		
• DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

MELON SUBGROUP (CROP SUBGROUP 9A)

citron melon; muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); watermelon (includes hybrids and/or varieties of *Citrullus lanatus*)

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 20 gallons of water per acre. • Apply by air using a minimum of 5 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 3 days.
Whiteflies*		
*suppression		
USE RESTRICTIONS		
• DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

NONBEARING DECIDUOUS FRUIT, TREE NUT, AND VINES

Pest	Rate/Acre	Use Directions
Leafhoppers	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 75 gallons of water per acre. • Allow 14 days between applications.
Mealybugs		

Mites (see Target Species)		
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply to citrus nurseries or citrus in greenhouses. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 1.9 (0.10 lb. a.i.) pints per acre per year. • DO NOT make more than 2 applications per year. • DO NOT harvest edible crops for 12 months following application unless the crop is listed on the label.		

{OR the following use directions for Nonbearing Deciduous Fruit, Tree Nut, and Vines, which specifies a single application rate at the top of the range rate. In this case, only one application per year will be permitted to align with maximum dosage allowed per year. Selection of use directions depends on the Alternate Brand Name FPL, areas of the U.S. where marketed, and specific target species that may affect management requirements.}

Pest	Rate/Acre	Use Directions
Leafhoppers Mealybugs Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 75 gallons of water per acre.
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply to citrus nurseries or citrus in greenhouses. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 1.9 (0.10 lb. a.i.) pints per acre per year. • DO NOT make more than 1 application per year. • DO NOT harvest edible crops for 12 months following application unless the crop is listed on the label.		

PEANUT

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Leafhoppers Whiteflies*	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 10 gallons of water per acre. • Apply by air using a minimum of 3 gallons of water per acre. • As canopy density increases use of higher water volume will assure better coverage. • Allow 14 days between applications. • Preharvest Interval (PHI): 1 day
*suppression		
USE RESTRICTIONS		
• DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

PEPPERMINT, TOPS; SPEARMINT, TOPS

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 25 gallons of water per acre. • Allow 7 days between applications. • Preharvest Interval (PHI): 1 day.
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year.		

- **DO NOT** make more than 2 applications per year.

POME FRUIT GROUP (CROP GROUP 11-10)

apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Leafhoppers	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 100 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 14 days. SPECIFIC USE RESTRICTION: • DO NOT make more than 2 applications per year.
Mealybugs		
Mites (see Target Species)		
Leafhoppers	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 100 gallons of water per acre. • Preharvest Interval (PHI): 14 days. SPECIFIC USE RESTRICTION: • DO NOT make more than 1 application per year.
Mealybugs		
Mites (see Target Species)		
Pear psylla		
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply through any type of irrigation system. • DO NOT apply by Alternate Row Middle (ARM) spray method. • DO NOT apply more than 1.9 pints (0.10 lb. a.i.) per acre per year.		

POTATO

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 20 gallons of water per acre. • Apply by air using a minimum of 5 gallons of water per acre. • Apply by chemigation using a minimum of 0.10 to 0.25 acre-inches of water (see CHEMIGATION for additional information). • Allow 7 days between applications. • Preharvest Interval (PHI): 7 days.
Tomato (Potato) psyllid		
Potato leafhopper		
USE RESTRICTIONS		
• DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT FUZZY KIWIFRUIT (CROP SUBGROUP 13-07F)

Amur river grape; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 50 gallons of water per acre. • When using an electro-static sprayer, less than 50 gallons of water per acre may be used; however, DO NOT use less than 5 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 14 days. • For vines with a heavy canopy, or in high pressure situations, use higher water volumes. If lower water volume amounts are used, tractor speed must be
Mealybugs		
Powdery Mildew*		
Willamette spider mite	1.5 to 1.9 pints (0.08 to 0.10 lb. a.i.)	
Leafhoppers	0.95 to 1.9 pints ¹ (0.05 to 0.10 lb. a.i.)	

		reduced to ensure complete coverage.
*suppression		
¹ Use 1.9 pints (0.10 lb. a.i.) per acre for dense foliage. Best control of leafhoppers is achieved by applications when majority of the population is in an immature development stage.		
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 1.9 pints (0.10 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

SQUASH/CUCUMBER SUBGROUP (CROP SUBGROUP 9B)

Chayote (fruit); Chinese waxgourd (Chinese preserving melon); cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	• Apply by ground using a minimum of 40 gallons of water per acre. • Apply by air using a minimum of 10 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 1 day.
Tomato (Potato) psyllid		
Whiteflies*		
*suppression		
USE RESTRICTIONS		
• DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

STONE FRUIT GROUP (CROP GROUP 12-12)

apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	• Apply by ground using a minimum of 80 gallons of water per acre. • Allow 14 days between applications. • Preharvest Interval (PHI): 7 days.
Leafhoppers		
USE RESTRICTIONS		
• DO NOT apply by air. • DO NOT apply through any type of irrigation system. • DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. • DO NOT make more than 2 applications per year.		

TREE NUT GROUP (CROP GROUP 14-12)**Use Permitted West of the Mississippi River Only (excluding Almond and Pistachio)**

African nut-tree; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; Pili nut; pine nut; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.5 to 3.8 pints (0.08 to 0.20 lb. a.i.)	WEST OF THE MISSISSIPPI RIVER ONLY • Apply by ground using a minimum of 100 gallons of water per acre. • Apply by air using a minimum of 10 gallons of water per acre.

		- Allow 14 days between applications. - Preharvest Interval (PHI): 14 days.
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

TREE NUT GROUP (CROP GROUP 14-12)**Use Permitted East of the Mississippi River**

African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	EAST OF THE MISSISSIPPI RIVER - Apply by ground using a minimum of 100 gallons of water per acre. - Apply by air using a minimum of 10 gallons of water per acre. - Preharvest Interval (PHI): 14 days.
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 1.9 pints (0.10 lb. a.i.) per acre per year. DO NOT make more than 1 application per year.		

TROPICAL AND SUBTROPICAL, MEDIUM TO LARGE FRUIT, SMOOTH, INEDIBLE PEEL SUBGROUP 24B EXCLUDING BANANA

Abiu; akee apple; avocado; avocado, Guatemalan; avocado, Mexican; avocado, West Indian; bacury; binjai; canistel; cupuacu; etambe; jatoba; kei apple; langsai; lanjui; lucuma; mabolo; mango; mango, horse; mango, Saipan; mangosteen; paho; papaya; pawpaw, common; pelipisan; pequi; pequia; persimmon, American; plantain; pomegranate; poshte; quandong; sapote, black; sapote, green; sapote, white; sataw; screw-pine; star apple; tamarind-of-the-Indies; wild loquat; cultivars, varieties, and hybrids of these commodities

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Citrus Flat Mites Whiteflies*	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 95 gallons of water per acre. - Apply by air using a minimum of 50 gallons of water per acre. - As canopy density increases use of higher water volume will assure better coverage. - Allow 14 days between applications. - Preharvest Interval (PHI): 1 day
*suppression		
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

TUBEROUS AND CORM VEGETABLE SUBGROUP (CROP SUBGROUP 1C) EXCLUDING POTATO

arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible (Queensland arrowroot); cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; sweet potato; tanier (cocoyam); turmeric; yam bean (jicama, manioc pea); yam, true

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1.9 pints (0.10 lb. a.i.)	- Apply by ground using a minimum of 20 gallons of water per acre. - Apply by air using a minimum of 5 gallons of water per

Tomato (Potato) psyllid		acre.
Potato leafhopper		- Allow 7 days between applications. - Preharvest Interval (PHI): 7 days.
USE RESTRICTIONS		
DO NOT apply through any type of irrigation system. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per year. DO NOT make more than 2 applications per year.		

GREENHOUSE CUCUMBER

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Tomato (Potato) psyllid Whiteflies*	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 100 gallons of water per acre. - Preharvest Interval (PHI): 7 days. - Apply in sufficient water to obtain complete coverage of all plant parts. Make applications with high volume or low volume ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.
*suppression		
USE RESTRICTIONS		
DO NOT use products with the same mode of action in consecutive applications. DO NOT apply through any type of irrigation system. DO NOT apply in Ultra Low Volume Equipment. DO NOT apply more than 1.9 pints (0.10 lb. a.i.) per acre crop cycle. DO NOT make more than 1 application per crop cycle. DO NOT make more than 2 applications per year.		

GREENHOUSE TOMATO

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Tomato (Potato) psyllid Whiteflies*	1.9 pints (0.10 lb. a.i.)	- Apply by ground using a minimum of 100 gallons of water per acre. - Allow 14 days between applications. - Preharvest Interval (PHI): 1 day. - Apply in sufficient water to obtain complete coverage of all plant parts. Make applications with high volume or low volume ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.
*suppression		
USE RESTRICTIONS		
DO NOT use products with the same mode of action in consecutive applications. DO NOT apply through any type of irrigation system. DO NOT apply in Ultra Low Volume Equipment. DO NOT apply more than 3.8 pints (0.20 lb. a.i.) per acre per crop cycle. DO NOT make more than 2 applications per crop cycle. DO NOT make more than 4 applications per year.		

ORNAMENTAL TREES, VINES, SHRUBS, FOLIAGE, AND FLOWERING PLANTS

Pest	Rate/Acre	Use Directions
Leafhoppers Mealybugs Mites (see Target Species)	0.95 to 1.9 pints (0.05 to 0.10 lb. a.i.)	- Apply by ground using a minimum of 50 gallons of water per acre. - Allow 14 days between applications.
USE RESTRICTIONS		
DO NOT apply by air. DO NOT apply through any type of irrigation system. DO NOT apply to citrus nurseries or citrus in greenhouses. DO NOT apply more than 1.9 pints (0.10 lb. a.i.) per acre per year.		

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container and keep tightly closed when not in use. Store in a cool, dry place inaccessible to children and pets.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

[For liquid dilutables in containers small enough to shake (5 gallons or less)]

[Nonrefillable container. **DO NOT** reuse or refill this container. Clean container 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. **DO NOT** burn, unless allowed by state and local ordinances.]

[For any dilutable pesticide in containers too large to shake (larger than 5 gallons or 50 pounds)]

[Nonrefillable container. **DO NOT** reuse or refill this container. Clean container 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration. **DO NOT** burn, unless allowed by state and local ordinances.]

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

WARRANTY AND DISCLAIMER STATEMENT

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

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[OPTIONAL MARKETING LANGUAGE]

1	[https://shardausa.com/]  []
2	[Handle with Care]
3	[This side Up]