IMIDACLOPRID	GROUP	4A	INSECTICIDE

ADVISE FOUR INSECTICIDE

A SYSTEMIC AND FOLIAR INSECTICIDE FOR USE ON LISTED FIELD CROPS including COTTON, TOBACCO, POTATO, SOYBEANS and PEANUTS; IN CITRUS, TREE NUT, and FRUIT ORCHARDS; ON FIELD and GREENHOUSE VEGETABLES; ON BERRY, BUSH and VINE CROPS; and ON OTHER LISTED CROPS

ACTIVE INGREDIENT:	
Imidacloprid, 1 -[(6-Chloro-3-pyridinyl)methyl]-*N*-nitro-2-imidazolidinimine……..	40.4%
OTHER INGREDIENTS:……....	59.6%
TOTAL……..	100.0%

Contains 4 pounds of imidacloprid per gallon. [480 grams active per liter]

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 424-7452

FIRST AID	
IF INHALED	• Move the person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • **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 IN EYES	• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-424-7452 for emergency medical treatment information.	
NOTE TO PHYSICIAN No specific antidote is available. Treat the patient symptomatically.	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco, or using the toilet. Avoid contact with eyes or clothing. Wear protective eye wear. Wear long sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton ≥14 mil.

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NET CONTENTS
GALS. (LITERS)

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PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton ≥14 mil.
- Shoes plus socks.

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

Engineering Controls 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

User must:

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

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, 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 washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. **DO NOT** apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PROTECTION OF POLLINATORS

APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon  in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:
http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

DIRECTIONS FOR USE

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

Note to Reviewer: the two statements in brackets below may be used as they relate to *Tilia* species:

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon,]

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species.]

See individual crops for specific pollinator protection application restrictions. If none exist under the specific crop, for foliar applications, follow these directions for use for crops that are contracted to have pollinator services or for food/feed and commercially grown ornamentals that are attractive to pollinators:

1. FOR CROPS UNDER CONTRACTED POLLINATION SERVICES

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless the following condition has been met:

If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

2. FOR FOOD CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55˚F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

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.

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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton ≥14 mil
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

Keep children and pets off treated area until dry.

PRODUCT INFORMATION

Thorough uniform coverage is necessary to achieve insect control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations with a single application. Two applications may be required to achieve control; retreat if needed and as directed on this label. This product may be tank mixed with other insecticides as specified for knockdown of pests or for improved control of other pests.

Applying this product to crops grown for production of true seed intended for private or commercial planting is not permitted unless allowed under state approved 24(c) labeling. Additional information on this product uses for listed crops and other questions may be obtained from the Cooperative Extension Service, PCA's, consultants or your local Winfield Solutions, LLC representative.

RESISTANCE MANAGEMENT

For resistance management, this product contains a Group 4A insecticide. Any insect/mite population may contain individuals naturally resistant to this product and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay insecticide resistance take one or more of the following steps:

- Rotate the use of this product or other Group 4A insecticides within a growing season, or among growing seasons, with different insecticide 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 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 use that includes scouting, uses historical information related to pesticide use, 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 pest control 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 non-performance or suspected resistance, contact your local Winfield Solutions, LLC representative.

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Intruder, Impulse, Leverage , Pasada, Provado , Trimax Pro and Venom. Other 4A Group, neonicotinoid products used as soil/seed treatment include: Admire Pro, Advise, Alias, Belay, Clutch, Couraze, Cruiser, Gaucho, Macho, Macho Max, Platinum, Venom and Widow. Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at *http://irac-online.org/.*

PRODUCT USE INSTRUCTIONS

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

SPRAY DRIFT MANAGEMENT

The responsibility of avoiding spray drift is with the applicator. The applicator must consider weather related factors and the interaction of application equipment when making application decisions.

Mixing and Loading Requirements

The use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps, uncased well head, sinkholes or field drains.

Aerial Applications

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

Importance of Droplet Size

The droplet size is an important factor and can influence drift. Small droplets (<150 – 200 microns) drift to a greater extent than large droplets. Applications typically should be made to deliver the largest droplet range that provides adequate control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection.

Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. **DO NOT** apply when winds are greater than 15 mph and avoid gusty and windless conditions.

Restrictions During Temperature Inversions

DO NOT make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions typically restrict vertical air mixing, which then could cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions typically are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. 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 mixing.

Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards

Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following specific drift management practices must be followed.

- Adjust 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 the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

No-Spray Zone Requirements for Foliar Applications
DO NOT apply by ground within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

RUNOFF MANAGEMENT
DO NOT cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff must be employed.

ENDANGERED SPECIES NOTICE
Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

ROTATIONAL CROPS
Crops which are listed on imidacloprid labels or crops that have existing tolerances for imidacloprid may be planted in treated areas as soon as practical after the last imidacloprid application. Crops that are not found on an imidacloprid label, or crops that do not have existing tolerances for imidacloprid, may not be planted in treated areas for 12-months after the last application. Refer to the table below for plantback intervals for different crops. Note that if cover crops are planted any time after an application of this product, those crops may not be grazed or harvested for food or feed.

ROTATIONAL CROPS - PLANT-BACK INTERVALS
IMMEDIATE PLANT-BACK: All crops on this label plus the following crops not on this label: barley, canola, corn (field, pop & sweet), rapeseed, sorghum, sugar beet and wheat.
30-DAY PLANT-BACK: Cereals (including buckwheat, millet, oats, rice, rye, and triticale), soybeans and safflower
10-MONTH PLANT-BACK: Onions and bulb vegetables
12-MONTH PLANT-BACK: All other crops

APPLICATION INSTRUCTIONS

This product can be applied as a foliar spray, or as a soil treatment (see Crop Specific Restrictions and Limitations). Thorough uniform coverage is necessary to achieve insect control. Use adequate spray volumes, properly calibrated application equipment, and an adjuvant to improve coverage. Failure to provide adequate coverage and retention of this product on leaves and fruit may result in loss of insect control or delay in onset of activity.

This product may not knockdown established and heavy insect populations with a single application. Two applications may be required to achieve control. Scout fields and retreat if needed.

This product may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

Apply this product with properly calibrated ground or aerial application equipment.

Minimum spray volumes unless otherwise specified on the Crop Specific Restrictions and Limitations section are 10 gallons/Acre by ground applications and 5 gallons/Acre through aerial equipment.

This product may also be applied by ground or overhead chemigation **(see CHEMIGATION APPLICATION section below)** if allowed in crop specific application section.

Apply specified rate per acre as a foliar spray as pest populations begin to build. **DO NOT** apply more than 0.5 lbs. active ingredient per acre, per calendar year, regardless of formulation or method of application, unless specified within the **Crop Specific Restrictions and Limitations** for a given crop.

Mix Preparation

To prepare the application mixture:

1. Fill the spray tank with a portion of the required amount of water and begin agitation.
2. Add the specified amount of Advise Four Insecticide.
3. Fill the tank with the remaining water needed. Maintain sufficient agitation during mixing and application.

NOTE: This product may also be used with other pesticides and/or fertilizer solutions; refer to the Tank Mix and Compatibility Note below. When tank mixtures of this product and other pesticides are involved, prepare the tank mixture as specified above and follow the suggested Mixing Order below.

Tank Mixes
Unless otherwise prohibited on this label or the label of an intended tank mix product, this product may be applied in combination with any pesticide registered for the same crop, timing, and method of application. 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. **IMPORTANT: PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL OR 24(C) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.**

Compatibility
Before full-scale mixing of this product with other pesticides, fertilizers, secondary plant nutrients, adjuvants, surfactants or oils, you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying. To evaluate potential short term effects of applying the mixture, test the tank mix combination on a few plants or a small area before larger-scale treatments. Wait at least 2 to 3 days for problems to become apparent, **IMPORTANT: MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL OR 24(c) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.**

Mixing Order
When pesticide mixtures are needed, add wettable powders first, this product or other flowables second, and emulsifiable concentrates last. Ensure good agitation as each component is added and do not add an additional component until the previous is thoroughly mixed. A fertilizer/pesticide compatibility agent may be needed if a fertilizer solution is to be added to the mixture. Be sure to maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

Further information on Tank Mixes is available from your local Winfield Solutions, LLC representative.

CHEMIGATION APPLICATION

Types of Irrigation Systems
Make foliar chemigation applications of this product to crops through overhead sprinkler chemigation systems if specified in crop- specific restrictions and limitations application sections. Make soil chemigation applications of this product only to crops through chemigation as specified in crop-specific application sections and only through low-pressure systems specifically listed for a given crop.**DO NOT** apply this product through any other type of irrigation system.

Water Volume
Chemigation applications of this product must be made as concentrated as possible. Retention of this product on target site of insect infestation is necessary for optimum activity. Chemigation of this product in water volumes exceeding 0.10 inches/Acre are not recommended.

Uniform Water Distribution and System Calibration
The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring
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.

Drift
DO NOT apply when the wind speed favors drift beyond the area intended for treatment.

Required System Safety Devices
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 normally 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.

Using Water from 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 must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to 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. The pesticide injection pipeline must 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.

CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS
FIELD CROPS

COTTON

SOIL APPLICATIONS

Pests	Fluid ounces/1,000 row-feet	Fluid ounces/Acre
For control of: Cotton aphid Plant bugs Thrips Whiteflies	0.65	8.5 – 10.6 (Depending on row-spacing)

Application Methods

Apply specified dosage by one of the following methods:
1. In-furrow or narrow band spray. When applying as an in-furrow spray, direct application on or below the seed at planting; OR
2. Narrow band application below the eventual seed bed row in a bedding operation 7 or fewer days before planting; OR
3. Chemigation into root zone through low-pressure drip or trickle irrigation equipment.

Restrictions

Maximum amount of product allowed per calendar year: **10.6 fluid ounces/Acre** (0.33 lb. AI/A)
Pre-Harvest Interval (PHI): **14 days**

Regardless of formulation or method of application, **DO NOT** apply more than 0.5 lbs. of active ingredient per acre per calendar year of Advise Four Insecticide,
Provado®, Trimax® or Leverage®, including seed treatment as Gaucho®, soil and foliar uses.
DO NOT graze treated fields after any application of this product.
See Resistance Management section of this label.

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Cotton aphid Cotton fleahopper Bandedwinged whitefly Plant bugs (excludes *Lygus hesperus*) Green stink bug	1.0 – 2.0

Southern green stink bug Bollworm/Budworm (ovicidal effect)	
For suppression of: Lygus bugs (*Lygus hesperus*) Whiteflies (other than banded winged whitefly)	2.0

Application Methods

Apply through properly calibrated ground, aerial, or chemigation application equipment.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per calendar year: **10.0 fluid ounces/Acre** (0.31 lb. AI/A)
Regardless of formulation or method of application, **DO NOT** apply more than 0.5 lbs. of active ingredient per acre per calendar year of Advise Four Insecticide,
Provado®, Trimax® or Leverage®, including seed treatment as Gaucho®, soil and foliar uses.
DO NOT graze treated fields after any application of this product.

TANK MIX APPLICATIONS

Pests (in addition to those listed above)	**Advise Four Rate** **Fluid ounces/Acre**	**BIDRIN 8 Rate[1]** **Fluid ounces/Acre**
For early season control of: Thrips	1.0 – 1.5	1.6 – 3.2
For mid to late season control of: Plant bugs Stink bugs (including Brown stink bug) Grasshoppers Saltmarsh caterpillar Cotton leafperforator		4.0 – 8.0

Remarks

This product can be tank mixed with other pesticides and/or fertilizer solutions. When tank-mixing this product with other pesticides, prepare the tank mixture as specified above in the **Mix Preparation** instructions section. Follow the following general mixing order:

1. Add wettable powders first;
2. Add this product or other flowables second;
3. Add emulsifiable concentrates last.

Be sure to maintain agitation as each component is added and do not add an additional component until the previous component is thoroughly integrated into the mixture. If a fertilizer solution is added, a fertilizer-pesticide compatibility agent may be needed.

Restrictions (in addition to those listed above for Advise Four Insecticide foliar applications)

[1] Refer to the BIDRIN 8 product label for specific use instructions; observe all use restrictions and precautions that appear on the BIDRIN 8 label.

POTATO

SOIL APPLICATIONS

Pests	**Fluid ounces/1,000 row-feet**	**Fluid ounces/Acre**
For control of: Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid **For suppression of:** Wireworms (with in-furrow spray at planting) **For suppression of disease symptoms of:** Potato leaf roll virus (PLRV) Potato yellows Net necrosis (PLRV)	0.45 – 0.65	6.5 – 10.0

Application Methods

Apply specified dosage in one of the following methods:

1. In-furrow spray during planting directed on seed pieces or seed potatoes; OR
2. Subsurface side-dress on both sides of the row covered with 3 or more inches of soil; OR
3. Narrow band spray at ground cracking directly over the row during hilling covered with 3 or more inches of soil; OR
4. Narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. For effective pest control or suppression, applications of this product must be placed below soil surface and in contact with seed piece or within root zone. For potatoes grown on highly permeable soils with shallow water table, at-plant applications of this product may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered.

Restrictions

Maximum amount of product allowed per calendar year: **10.0 fluid ounces/Acre** (0.31 lb. AI/A)
Pre-Harvest Interval (PHI): **7 days**

FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Colorado Potato beetle Flea beetles Fleahoppers Psyllids	1.5

Application Methods

Apply as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per calendar year: **6.4 fluid ounces/Acre** (0.20 lb. AI/A)

SEED PIECE APPLICATIONS[1]		
Pests	**Fluid ounces/100 lbs seed**	**Fluid ounces/Acre**
For control of: Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid Wireworms (seed piece protection)	0.2 – 0.4	4.0 – 8.0
For suppression of disease symptoms of: Potato leaf roll virus (PLRV) Potato yellows Net necrosis (PLRV)	0.4	8.0

Application Methods

Apply specified dosage as a diluted spray onto seed pieces using a shielded spray system. Dilute with 3 parts water, or less, to 1 part this product. Agitate or stir spray solution as needed. Fungicidal or inert absorbent dusts may be applied after this product's application. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust. Plant seed pieces as soon as possible after treating avoiding prolonged exposure of seed pieces treated with this product to sunlight and in accordance with the recommendation of your local Extension specialist. Consult your local Winfield Solutions, LLC representative or crop protection product dealer for information relevant to your area.

Remarks

[1] Based on a seeding rate of 2000 lb./Acre

Restrictions

Maximum amount of product allowed per calendar year: **10.0 fluid ounces/Acre** (0.31 lb. AI/A)
DO NOT use treated seed pieces for food, feed, or fodder.
DO NOT apply any subsequent applications of this product (in-furrow), Gaucho®, Leverage® or Provado® following a seed-piece treatment of this product.
Pre-Harvest Interval (PHI): **7 days**

Apply only in areas that are equipped to remove spray mist or dust or with adequate ventilation.

SOYBEAN

FOLIAR APPLICATIONS[1]	
Pests	**Fluid ounces/Acre**
For control of: Aphids Bean leaf beetle Cucumber beetles / Rootworm adults Japanese beetle (adults) Leafhoppers Whiteflies	1.5

Application Methods

Apply as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per calendar year: **3.65 fluid ounces/Acre** (0.13 lb. AI/A)
[1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.

TOBACCO

SOIL APPLICATIONS

Pests	Fluid ounces/1,000 plants (as seedling tray drench)	Fluid ounces/1,000 plants (in-furrow or transplant-water)
For control of: Aphids, Flea beetles	0.5	0.7
For control of: Mole crickets, Whiteflies, Wireworms	0.7 – 1.4	0.9 – 1.4
For suppression of disease symptoms of: Tomato spotted wilt virus (TSWV)	1.4	1.4

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Uniform, broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days prior to transplanting, followed immediately by overhead irrigation to wash this product from foliage into potting media. Failure to wash this product from foliage may result in a reduction in pest control. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots.; OR
2. In-furrow spray or transplant-water drench during setting.; OR
3. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Remarks

Important Note: Proper tray drench applications of this product have been shown to be the most efficacious method of application. However, the specified rate of this product may be applied as a combination of the tray drench in the planthouse and/or transplant-water drench in field. Adverse growing conditions may cause a delay in uptake of this product into the plant and a delay in control.

Restrictions

Pre-Harvest Interval (PHI**): 14 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids	0.8 – 1.6
For control of: Flea beetles, Japanese beetles	1.6

Application Methods

Apply as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per calendar year: **9.0 fluid ounces/Acre** (0.28 lb. AI/A)

PEANUT

SOIL APPLICATIONS[1]

Pests	Fluid ounces/Acre
For control of: Aphids, Leafhoppers, Whiteflies	8.0 – 12.0
For suppression of: Thrips	12.0

Application Methods

Apply as a:

1. Chemigation into root-zone through properly calibrated low-pressure (drip, trickle, micro-sprinkler or equivalent) equipment.; OR
2. In-furrow spray directed on or below seed.

Remarks

Applications of this product have been shown to increase the incidence of Tomato spotted wilt virus (TSWV), and possibly other tospoviruses, on multiple varieties of peanut. Prior to making product applications, contact the State, Cooperative This use is not

permitted in CA unless otherwise directed by state approved 24(c) labeling. Extension Service, or Winfield Solutions, LLC representative, for recommendations to discuss the risk and benefits of imidacloprid applications.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Maximum amount allowed per calendar year: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
[1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.

FOLIAR APPLICATIONS[1]

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers Whiteflies	1.4

Application Methods

Apply as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Minimum interval between applications: **5 days**
Maximum amount allowed per calendar year: **4.2 fluid ounces/Acre** (0.13 lb. AI/A)
[1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.

VEGETABLE CROPS

CUCURBIT VEGETABLES: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon and Winter melon), Pumpkin, Squash (includes summer squash types such as: butternut squash, calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*).

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Cucumber beetles Leafhoppers Thrips (foliage-feeding thrips only) Whiteflies	8.0 – 12.0
For suppression of disease symptoms of: Bacterial wilt (as vectored by various cucumber beetles) Leaf silvering resulting from whitefly feeding	12.0

Application Methods

Apply specified dosage of this product in one of the following methods:
1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray directed on or below seed; OR
3. Narrow (2” or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1.5” with sufficient irrigation within 24 hours of application; OR
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; OR
5. Post-seeding drench, transplant-water drench, or hill drench; OR
6. Subsurface side-dress on both sides of each row. This product must be incorporated into root-zone.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Maximum amount of product allowed percrop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling

GREENHOUSE APPLICATIONS[1]

Pests	Fluid ounces/1000 plants
For control of: Aphids Whiteflies	0.05

Application Method

Apply specified dosage to seedlings in trays in the planthouse, targeting soil media (tray drench), not more than 7 days prior to transplanting, in one of the following manners:

1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash this product from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash this product from foliage may result in reduced pest control; OR
2. Injection into overhead irrigation system, using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray.

Remarks

The application made in the planthouse is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots.

Important Note: Not all varieties of cucurbit vegetables have been tested for tolerance to this product applied to seedling flats. Therefore, treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

Restrictions

Maximum number of greenhouse applications: **1**

Maximum amount of product allowed per greenhouse application: **0.05 fluid ounce** (0.001568 lb AI)**/1,000 plants**.

DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.

[1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.

FRUITING VEGETABLES: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet) Tomato, Pepinos, Tomatillo.

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Colorado potato beetles Flea beetles Leafhoppers Thrips (foliage-feeding only) Whiteflies	Okra & Pepper 8.0 – 16.0 Other Listed Crops 8.0 – 12.0
For suppression of disease symptoms of: Tomato mottle virus Tomato spotted wilt virus Tomato yellow leaf curl virus	

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray directed on or below seed; OR
3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1.5" with sufficient irrigation within 24 hours of application; OR
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; OR
5. Post-seeding drench, transplant-water drench, or hill drench; OR
6. Subsurface side-dress on both sides of each row. This product must be incorporated into root-zone.

Restrictions

Pre-Harvest Interval (PHI): **21 days**

Maximum amount of product allowed on Okra and Pepper per crop season: **16.0 fluid ounces/Acre** (0.5 lb. AI/A).

Maximum amount of product allowed on other listed fruiting vegetable crops per crop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A).

DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.

FOLIAR APPLICATIONS (FIELD)

Pests	Fluid ounces/1000 plants
For control of: Aphids Colorado potato beetle Leaf beetles Whiteflies[1]	1.5 – 2.5
For control of: Pepper weevil (Pepper only)[2]	2.5

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Remarks

Applications of this product must be incorporated into a full-season program, where alternations of effective products from multiple classes of chemistry and different modes of actions are utilized in a blocked or windowed approach. For additional information, please contact your Winfield Solutions, LLC representative, Extension Specialist or crop advisor.

[1]Higher specified rate within the rate range must be used when targeting adult whiteflies.

[2]For pepper weevil, apply specified dosage of this product by ground equipment only. Time applications prior to a damaging pest population becoming established. Good coverage of foliage and fruit is necessary for target pest control.

Restrictions

Pre-Harvest Interval (PHI): **0 days**
Minimum interval between applications: **5 days**
Maximum amount of product allowed per crop season: **7.7 fluid ounce** (0.24 lb AI)/A
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.

GREENHOUSE APPLICATIONS[1]

Pests	Fluid ounces/1000 plants
For control of: Aphids Whiteflies	0.05

Application Methods

Apply specified dosage to seedlings in trays in the planthouse, targeting soil media (tray drench), not more than 7 days prior to transplanting, in one of the following manners:

1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash this product from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash this product from foliage may result in reduced pest control; OR
2. Injection into overhead irrigation system, using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray.

Remarks

The application made in the planthouse is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots.
Important Note: Not all varieties of cucurbit vegetables have been tested for tolerance to this product applied to seedling flats. Therefore, treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

Restrictions

Maximum number of greenhouse applications allowed: **1**
Maximum amount of product allowed per greenhouse application: **0.05 fluid ounce** (0.001568 lb AI)**/1,000 plants**.
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.
[1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.

GREENHOUSE VEGETABLES: Mature Cucumber and Tomato plants in production greenhouses ONLY.

Pests	Fluid ounces/1000 plants
For control of: Aphids Whiteflies	0.7

Application Methods

Apply specified dosage in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers using soil drenches, micro-irrigation, drip irrigation, or hand-held or motorized calibrated irrigation equipment. **DO NOT** apply to immature plants since phytotoxicity may occur.

Remarks

Make application when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds. Repellency of bumble bee pollinators and negative effects on some beneficials (*Onius* sp.) can occur when this product is applied.
Many varieties of vegetables have been tested for tolerance to this product and show good safety. However, certain varieties may show more sensitivity to this product. Therefore, treat a few plants before treating the whole greenhouse.

Restrictions

Pre-Harvest Interval (PHI): **0 days**
Maximum number of applications per crop season: **1**
Maximum amount of product allowed per crop season: **0.7 fluid ounce** (0.022 lb. AI)**/1,000 plants**.
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.

GLOBE ARTICHOKE

SOIL APPLICATION

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers	8.0 – 16.0

Application Methods

Apply specified dosage of this product in one of the following methods:
1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray directed on or below seed.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounce/Acre** (0.50 lb. AI/A)

FOLIAR APPLICATION

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers	1.6 – 4.0

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Minimum Interval between applications: **14 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounce/Acre** (0.50 lb. AI/A)

HERBS: Angelica, Balm (lemon balm), Basil (fresh and dried), Borage, Bumet, Camomile, Catnip, Chervil (dried), Chinese chive, Chive, Clary, Coriander (cilantro or Chinese parsley leaves), Costmary, Culantro (leaf), Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory (summer and winter), Sweet bay (bay leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Whiteflies	8.0 – 12.0
For suppression of: Thrips (foliage-feeding only)	

Application Methods

Apply specified dosage in one of the following methods:
1. In-furrow spray during planting directed on or below seed; OR
2. In-furrow spray or transplant-water drench during setting or transplanting; OR
3. Shanked-into or below eventual seed-line; OR
4. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Remarks

Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, treat only small areas or numbers of plants and evaluate prior to full-scale use.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Maximum amount of product allowed per crop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)

FOLIAR APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Leaf beetles Leafhoppers Whiteflies	1.4

Application Methods

Apply as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Remarks

The addition of an organosilicone-based spray adjuvant at a rate not to exceed the adjuvant manufacturer's specified use rate may improve coverage and control.
Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, treat only small areas or numbers of plants and evaluate prior to full-scale use.

Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **5 days**
Maximum amount of product allowed per crop season: **4.2 fluid ounce** (0.13 lb AI/A)

HEAD and STEM BRASSICA VEGETABLES[1]: Broccoli, Broccoli raab *(rapini)*, Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (*gailon*) broccoli, Chinese *(bok choy)* cabbage, Chinese *(napa)* cabbage, Chinese mustard *(gai choy)* cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, plus Turnip tops (leaves).

LEAFY GREENS VEGETABLES[1]: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Chervil, Chrysanthemum (edible leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Raddicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach)), **Watercress[2]** (including upland).

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre (on 36 in. rows)
For control of: Aphids Leafhoppers Thrips (foliage-feeding only) Whiteflies	5.0 – 12.0

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray directed on or below seed; OR
3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1.5” with sufficient irrigation within 24 hours of application; OR
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; OR
5. Post-seeding drench, transplant-water drench, or hill drench; OR
6. Subsurface side-dress on both sides of each row. This product must be incorporated into root-zone.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Maximum amount of product allowed per crop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
[1] **DO NOT** use on crops grown for seed unless permitted by state approved 24(c) labeling.
[2] For applications made to watercress, production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following application. Applications must be made to fully leafed-up canopies only. **DO NOT** apply to native cress growing in streams or other bodies of water.

FOLIAR APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Whiteflies	1.5

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications**: 5 days**
Maximum amount of product allowed per crop season: **7.7 fluid ounces/Acre** (0.23 lb. AI/A)
[1] **DO NOT** use on crops grown for seed unless permitted by state approved 24(c) labeling.
[2] For applications made to watercress, production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following application. Applications must be made to fully leafed-up canopies only. **DO NOT** apply to native cress growing in streams or other bodies of water.

LEAFY PETIOLE VEGETABLES: Cardoon, Celery, Celtuce, Chinese celery (fresh leaves and stalk only), Florence fennel (including sweet anise, sweet fennel, finocchio), Rhubarb, Swiss chard

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre (on 36 in. rows)
For control of: Aphids Leafhoppers Thrips (foliage-feeding only) Whiteflies	5.0 – 12.0

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray directed on or below seed; OR
3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1.5" with sufficient irrigation within 24 hours of application; OR
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; OR
5. Post-seeding drench, transplant-water drench, or hill drench; OR
6. Subsurface side-dress on both sides of each row. This product must be incorporated into root-zone.

Restrictions

Pre-Harvest Interval (PHI): **45 days**
Maximum amount of product allowed per crop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling.

LEGUME VEGETABLES (except Soybean, dry):

Edible podded and Succulent shelled pea and Bean and Dried Shelled Pea and Bean including:
Bean - *Lupinus* spp. (grain lupin, sweet lupin, white lupin, and white sweet lupin)
Bean - *Phaseolus* spp. (field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean) Bean - *Vigna* spp. (adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean)
Pea - *Pis um* spp. (dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)
Other Beans and Peas - Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean.

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Whiteflies	8.0 – 12.0
For suppression of disease symptoms of: Bean common mosaic virus (BCMV) Bean golden mosaic virus (BGMV) Beet curly top hybrigeminivirus (BCTV)	

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray at planting directed on or below seed; OR
3. In a narrow (2" or less) surface band over seed-line during planting incorporated to a depth of 1 to 1.5" with sufficient irrigation within 24 hours following application; OR
4. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting; OR
5. As a post-seeding drench, transplant-water drench, or hill drench.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Maximum amount of product allowed per crop season: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling.

FOLIAR APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers Whiteflies	1.4

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **7 days**
Maximum amount of product allowed per crop season: **4.2 fluid ounce** (0.13 lb. AI/A)
DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling.

ROOT VEGETABLES[1] – soil treatment except Sugarbeet including:

Beet (garden)†, Burdock (edible)†, Carrot†, Celeriac†, Chervil (turnip-rooted)†, Chickory†, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip†, Radish†, Oriental radish (diakon)†, Rutabaga†, Salsify (black)†, Salsify (oyster plant), Salsify (Spanish), Skirret, Turnip†

Pests	Fluid ounces/1,000 row ft.	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Thrips (foliage feeding only) Whiteflies	0.35 – 0.85	5.0 – 12.0

Restrictions

- Pre-Harvest Interval (PHI): 21 days
- Maximum amount of product allowed per crop season when making soil applications: 12 fluid ounces/Acre (0.38 lb. AI/A)
- Maximum applications per crop season: 1

[1] Not for use on crops grown for seed unless permitted by state approved 24(c) labeling.

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. In-furrow spray (rate specified per 1,000 row-feet) or, shanked-in 1 to 2 inches below seed depth during planting; OR
3. In a narrow (2 inches or less) band directly (1 to 2 inches) below the eventual seed row in a bedding operation 14 or fewer days before planting.

Remarks

Important Note: The rate applied affects the length of control. Use higher specified rates within the rate range where infestations occur later in crop development, or where pest pressure is continuous. Rates of this product less than 0.7 fluid ounce/1,000 row-feet will not provide adequate residual pest control. Crops treated with this product grown on very high organic matter soils (muck) may also require additional pest management control.

† The tops or greens from these crops may be utilized for food or feed.

ROOT VEGETABLES[1] – foliar treatment except Sugarbeet including: Beet (garden)†, Burdock (edible)†, Carrot†, Celeriac†, Chervil (turnip-rooted)†, Chickory†, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip†, Radish†, Oriental radish (diakon)†, Rutabaga†, Salsify (black)†, Salsify (oyster plant), Salsify (Spanish), Skirret, Turnip†

Pests	Fluid ounces/Acre
For control of: Aphids, Flea beetles, Leafhoppers, Whiteflies	1.4

Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum amount of product allowed per crop season when making foliar applications: 1.4 fluid ounces/Acre (0.044 lb. AI/A) on Radish, 4.2 fluid ounces per acre (0.13 lb. AI/A) on all other crops
- Maximum applications per crop season: 1 on Radish; 3 on all other crops

[1] Not for use on crops grown for seed unless permitted by state approved 24(c) labeling.

Application Methods

- Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build thorough uniform coverage is necessary to achieve optimum control. Use a spray adjuvant to improve coverage. This product may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. Tank mix this product with other insecticides for knockdown of pests or for improved control of other pests.

Remarks

† The tops or greens from these crops may be utilized for food or feed.

TUBEROUS and CORM VEGETABLES[1] (except Potato) – soil treatment: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter and sweet)†, Chayote (root), Chufa, Dasheen (taro)†, Ginger, Leren, Sweetpotato, Tanier (cocoyam)†, Turmeric, Yam bean (jicama, manoic pea), Yam (true)†

Pests	Fluid ounces/1,000 row ft.	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Thrips (foliage feeding only) Whiteflies	0.35 – 0.85	5.0 – 12.0

Restrictions

- Pre-Harvest Interval (PHI) from planting application: 3 days (leaves); 125 days (corms)
- Maximum amount of product allowed per crop season when making soil applications: 12 fluid ounces/Acre (0.38 lb. AI/A)
- Maximum applications per crop season: 1
- [1] Not for use on crops grown for seed unless permitted by state approved 24(c) labeling.

Application Methods

- Apply specified dosage of this product in one of the following methods:
- In-furrow spray (rate specified per 1,000 row-feet) over planting materials (hulis) or, shanked-in 1 to 2 inches below hulis depth at planting; OR
- Side-dress not more than 0.3 fluid ounces/1000 row-feet no later than 45 days after planting. Observe the same PHI as above.

Remarks

Important Note: The rate applied affects the length of control. Use higher specified rates within the rate range where infestations occur later in crop development, or where pest pressure is continuous. Rates of this product less than 0.35 fluid ounce/1,000 row-feet will not provide adequate residual pest control. Crops treated with this product grown on very high organic matter soils (muck) may also require additional pest management control.

† The tops or greens from these crops may be utilized for food or feed.

TUBEROUS AND CORM VEGETABLES[1] (except Potato) – foliar treatment:

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter and sweet)†, Chayote (root), Chufa, Dasheen (taro)†, Ginger, Leren, Sweetpotato, Tanier (cocoyam)†, Turmeric, Yam bean (jicama, manoic pea), Yam (true)†

Pests	Fluid ounces/Acre
For control of: Aphids, Flea beetles, Leafhoppers, Whiteflies	1.4

Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum amount of product allowed per crop season when making foliar applications: 4.2 fluid ounces per acre (0.13 lb. AI/A) on all other crops
- Maximum applications per crop season: 3 on all crops

[1] Not for use on crops grown for seed unless permitted by state approved 24(c) labeling.

Application Methods

- Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build thorough uniform coverage is necessary to achieve optimum control. Use a spray adjuvant to improve coverage. This product may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. Tank mix this product with other insecticides for knockdown of pests or for improved control of other pests.

Remarks

† The tops or greens from these crops may be utilized for food or feed.

SUGARBEET: (California only)

SOIL APPLICATIONS (FIELD)

Pests	Fluid ounces/Acre
For control of: Aphids Flea beetles Leafhoppers Whiteflies	3.0 – 6.0
For suppression of disease symptoms of: Western yellows virus Beet curly top hybrigeminivirus (BCTV)	

Application Methods

Apply specified dosage of this product in the following method:
Apply specified dosage in sufficient carrier volume to ensure uniform application. Apply directly below each seed furrow either during the bedding operation immediately prior to planting or at the time of planting.

Remarks

The low rate may be applied to aid establishment of stands in whitefly areas, or for early season control of the other pests listed.

Restrictions

Maximum amount of product allowed per calendar year: **6.0 fluid ounces/Acre** (0.19 lb AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.
DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling.

ADVISE FOUR INSECTICIDE CONVERSION CHART FOR LINEAR APPLICATION ONLY

RATE fluid ounces/ Acre	RATE fluid ounces/1,000 row-feet Based on *average* row spacing (in inches):									
	10	15	20	25	30	34	36	38	40	45

5.0	0.10	0.14	0.19	0.24	0.29	0.33	0.34	0.36	0.38	0.43
5.5	0.11	0.16	0.21	0.26	0.32	0.36	0.38	0.40	0.42	0.47
6.0	0.11	0.17	0.23	0.29	0.34	0.39	0.41	0.44	0.46	0.52
6.5	0.12	0.19	0.25	0.31	0.37	0.42	0.45	0.47	0.50	0.56
7.0	0.13	0.20	0.27	0.33	0.40	0.46	0.48	0.51	0.54	0.60
7.5	0.14	0.22	0.29	0.36	0.43	0.49	0.52	0.55	0.57	0.65
8.0	0.15	0.23	0.31	0.38	0.46	0.52	0.55	0.58	0.61	0.69
8.5	0.16	0.24	0.33	0.41	0.49	0.55	0.59	0.62	0.65	0.73
9.0	0.17	0.26	0.34	0.43	0.52	0.59	0.62	0.65	0.69	0.77
9.5	0.18	0.27	0.36	0.45	0.55	0.62	0.65	0.69	0.73	0.82
10.0	0.19	0.29	0.38	0.48	0.57	0.65	0.69	0.73	0.77	0.86
10.5	0.20	0.30	0.40	0.50	0.60	0.68	0.72	0.76	0.80	0.90
11.0	0.21	0.32	0.42	0.53	0.63	0.72	0.76	0.80	0.84	0.95
11.5	0.22	0.33	0.44	0.55	0.66	0.75	0.79	0.84	0.88	0.99
12.0	0.23	0.34	0.46	0.57	0.69	0.78	0.83	0.87	0.92	1.03
12.5	0.24	0.36	0.48	0.60	0.72	0.81	0.86	0.91	0.96	1.08
13.0	0.25	0.37	0.50	0.62	0.75	0.85	0.90	0.95	0.99	1.12
13.5	0.26	0.39	0.52	0.65	0.77	0.88	0.93	0.98	1.03	1.16
14.0	0.27	0.40	0.54	0.67	0.80	0.91	0.96	1.02	1.07	1.21

Important Note: Rate of this product applied affects the length of control and, to a considerable extent, the degree of control or effect. Row-spacing X rate combinations in shaded blocks may not provide adequate residual pest control and are not recommended for long-term, residual control. Use higher labeled rates where infestations may occur later in crop development or where pest pressure is continuous. Winfield Solutions, LLC offers no warranty for use of this product at rates below 0.35 fluid ounce/1,000 row- feet (the Row-Spacing/Rate combinations that are shaded).

BERRY, BUSH and VINE CROPS

STRAWBERRY: annual and perennial varieties

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Whiteflies	12.0 – 16.0

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment after plants are established or on perennial crops in early spring prior to bud opening; OR
2. As a plant material or plant hole treatment just prior to, or during transplanting; OR
3. As a pre-plant band spray over the row in a minimum of 20 gallons of water per acre, followed immediately by overhead irrigation to incorporate product into root zone. **DO NOT** use plastic or other mulch that limits movement of this product into root zone.

Remarks

The rate applied affects the length of control. Use higher specified rates within the rate range where infestations may occur later in crop development or where pest pressure is continuous.

Restrictions

Pre-Harvest Interval (PHI): **14 days**
Maximum amount allowed per crop season: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.
DO NOT make both a soil and foliar application on the same crop in the same season.
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling.

SOIL APPLICATIONS (post-harvest use on perennial varieties)

Pests	Fluid ounces/Acre
For control of: White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle, Oriental beetle)	8.0 – 12.0

Application Methods
Apply a single application post harvest to coincide with renovation of strawberry fields and during active egg-laying period of beetles. Apply specified dosage of this product in one of the following methods: 1. As a ground spray via boom or backpack sprayer in a minimum of 20 gallons of water per acre; OR 2. As a row-band spray using an adjusted amount of product based on the treated row band area in proportion to the amount required per full acre. The bandwidth must be equivalent to the width of the anticipated fruiting bed; OR 3. As a chemigation application with 600 to 1,000 gallons of water followed by 0.10 to 0.25 inch irrigation.
Remarks
All soil-surface applications must be followed by 0.25 inch of rainfall or overhead irrigation water per acre within 2 hours of application. Failure to adequately incorporate this product into egg-deposition zone may result in decreased activity of beetle grubs.
Restrictions
Maximum amount allowed per calendar year: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)

FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Spittlebugs Whiteflies	1.5
Application Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.	
Remarks	
All soil-surface applications must be followed by 0.25 inch of rainfall or overhead irrigation water per acre within 2 hours of application. Failure to adequately incorporate this product into egg-deposition zone may result in decreased activity of beetle grubs.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications: **5 days** Maximum amount of product allowed per crop season: **4.6 fluid ounces/Acre** (0.14 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging. **DO NOT** make both a soil and foliar application on the same crop in the same season. **DO NOT** use on crops grown for seed unless allowed by state approved 24(c)labeling.	

BUSHBERRY: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Ligonberry, Salal	
SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Japanese beetle (adults, feeding on foliage) White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle)	8.0 – 16.0
Application Methods	
Apply specified dosage of this product in one of the following methods: 1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR 2. 18-inch band on each side of the row followed with 0.25 inch of irrigation immediately after application.	
Remarks	
For grub control, apply this product to control 1st or 2nd (early) instar larvae. Application may be made post-bloom up to 7 days prior to harvest, or post-harvest until October 1st. For control of Japanese beetle larvae, make applications from June 1 to July 15. **DO NOT** apply during bloom. Application to grass covered rows, row middles, drive lanes, headlands, and other grassy areas in and around the berry field will control resident grub populations. Applications directed to the root zone will help protect berry plant roots from grub feeding. Apply this product to moist soil. If necessary, apply one hour of irrigation water immediately before application. To ensure maximum efficacy, 0.5 to 1 inch of irrigation water or rainfall must be applied or received within 24 hours of application of this product to facilitate movement into the soil and into the root zone.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre (0.50 lb. AI/A)** **DO NOT** apply pre-bloom or during bloom or when bees are foraging.	

FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers/Sharpshooters	1.2 – 1.6
For control of:	2.4 – 3.2

Japanese beetles (adults) Thrips (foliage feeding)	
For control of: Blueberry maggot	3.2
Application Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.	
Restrictions	
Pre-Harvest Interval (PHI): **3 days** Minimum interval between applications: **7 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) Maximum number of product applications per calendar year: **5** Maximum application volume (water): **Ground: 20.0 GPA; Air: 5.0 GPA** **DO NOT** apply pre-bloom or during bloom or when bees are foraging.	

CANEBERRY: Blackberry (*Rubus eubatus,* including bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, Lavacaberry, Loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or hybrids of these). Raspberry (black and red, *Rubus occidentalis, Rubus strigosus, Rubus idaeus*).

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers Whiteflies	8.0 – 16.0
For control of: Rednecked cane borer	12.0 – 16.0
For suppression of: Thrips (foliage-feeding only)	16.0
Application Methods	
Apply specified dosage in one of the following methods: 1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR 2. Basal, soil drench in a minimum of 500 gallons solution per acre.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.	

FOLIAR APPLICATIONS[1]	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers	3.2
For suppression of: Thrips (foliage-feeding only)	
Application Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.	
Restrictions	
Pre-Harvest Interval (PHI): **3 days** Minimum interval between applications: **7 days** Maximum amount of product allowed per season: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are actively foraging. [1] This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling.	

CRANBERRY

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Rootgrubs (Scarab) Rootworms (Chrysomelid)	8.0 – 16.0
Application Methods	

Apply this product to moist soil. Apply specified dosage of this product in one of the following methods:

1. As a soil spray (ground application) directed to the root and crown area using a minimum of 20 gal of water per acre; OR
2. As a chemigation application with 600 to 1,000 gallons water.

Immediately upon application, this product must be incorporated into root zone by 0.1 to 0.3 inch water/Acre, either with the chemigation application or through irrigation/rainfall if not applied through chemigation. Inadequate incorporation within 24 hours of application may result in reduced control.

Make application post-bloom immediately after honeybees are removed. Application should target early instar larvae.

Remarks

Best control may be achieved when application is made post-bloom immediately after bees are removed. Target early instar larvae. This product has not been tested for crop response in tank mixes with other registered fungicides or insecticides. If tank mixing is desired, premix a sample of this product and the desired fungicide or insecticide partner at labeled rates and apply to a small area. Evaluate crop response within 48 hours and for at least two weeks prior to utilizing the tank mix on larger acreage. If crop injury results from the premix test, do not apply the tank mix to larger acreage.

Restrictions

Pre-Harvest Interval (PHI): **30 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

GRAPES: American bunch grape, Muscadine grape, and Vinifera grape.

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: European fruit lecanium Leafhoppers/Sharpshooters Mealybugs *Phylloxera* spp.[1]	8.0 – 16.0
For suppression of: Grapeleaf skeletonizer Nematodes[2]	16.0
For suppression of disease symptoms of : Pierce's disease	

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR
2. Subsurface side-dress shanked into the root zone on both sides of the plants followed by irrigation; OR
3. Hill drench in sufficient water to ensure incorporation into the root zone followed by irrigation.

Remarks

Make application between bud-break and the pea-berry stage. A total of 14 fluid ounces/acre is required under the following conditions:

1. Where vigorous vine growth is expected
2. In warmer growing areas
3. Where mealybug and European fruit lecanium populations are expected to be heavy
4. Where vine populations exceed 600 per acre, or;
5. For suppression of nematodes

[1] Repeated and regular use of this product over multiple consecutive growing seasons controls existing *Phylloxera* infestations over time or prevents *Phylloxera* from becoming established.

[2]For suppression of nematodes, apply 14 fluid ounces in a single application or two 7-fluid ounce applications on a 30 to 45-day interval. Only make treatments by 1) chemigation into root zone through above ground low pressure drip, tickle, micro sprinkler or equivalent equipment or 2) French plow technique, followed immediately by sufficient irrigation to move the product into the entire root zone of the plant. Repeated and regular use of this product over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response.

Restrictions

Pre-Harvest Interval (PHI): **30 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A)

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Leafhoppers/Sharpshooters Mealybugs	1.2 – 1.6
For control of: Grapeleaf skeletonizer	1.6

Application Methods

Apply specific dosage of this product using properly calibrated ground application equipment only. Apply as a broadcast or directed spray to infested areas ensuring thorough coverage.
Restrictions
Pre-Harvest Interval (PHI): **0 days** Minimum interval between applications: **14 days** Maximum amount of product allowed per calendar year: **3.2 fluid ounces/Acre** (0.1 lb. AI/A)

HOPS:

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids	9.6
Application Methods	
Apply specified dosage of this product in one of the following methods: 1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR 2. Subsurface side-dress shanked into the root zone on both sides of the plants followed by irrigation; OR 3. Hill drench in sufficient water to ensure incorporation into the root zone followed by irrigation.	
Restrictions	
Pre-Harvest Interval (PHI): **60 days** Maximum amount of product allowed per calendar year: **9.6 fluid ounces/Acre** (0.3 lb. AI/A)	

FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids	3.2
Application Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.	
Restrictions	
Pre-Harvest Interval (PHI): **28 days** Minimum interval between applications: **21 days** Maximum amount of product allowed per calendar year: **9.6 fluid ounces/Acre** (0.3 lb. AI/A)	

COFFEE:

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers Leafminers	8.0 – 16.0
For suppression of: Scales	
Application Methods	
Apply specified dosage in one of the following methods: 1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.; OR 2. Subsurface side-dress shanked into the root zone on both sides of the plants followed by irrigation.; OR 3. Basal, soil drench in sufficient water to ensure incorporation into the root zone followed by irrigation.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.	

FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers Whiteflies	3.2
For suppression of: Scales	
Application Methods	

Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.
Restrictions
Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications: **7 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.

CITRUS, TREE NUT and ORCHARD CROPS

CITRUS (containerized): Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, and other cultivars and/or hybrids of these.

SOIL APPLICATIONS	
Pests	**mL/0.1ft^3 of container media**
For control of: Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Whiteflies Citrus root weevil (larval complex)[1]	0.38-0.58
For suppression of : Citrus thrips (foliage-feeding only)	0.58
Application Methods	
Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of this product per container as a soil drench or through low-pressure drip or trickle irrigation water. Use sufficient carrier volume to ensure thorough uniform distribution throughout the media without loss of gravitational water from the container. For optimal results, treatment must be made at planting prior to insect infestation. Retreat if necessary.	
Application Restrictions	
Pre-Harvest Interval (PHI): **0 day** Maximum allowed per application: **0.58 mLs/0.1 ft^3 container media** Maximum allowed per crop season: **3.5 mLs/plant** Do not apply pre-bloom or during bloom or when bees are foraging.	
Remarks	
[1]For control of larvae of the citrus root weevil complex, make application prior to neonate larvae entering potting media. Utilize specified higher dosage for heavy infestations.	

CITRUS: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, and other cultivars and/or hybrids of these.

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Termites (FL only) Whiteflies	8.0 – 16.0
For suppression of: Citrus nematode Thrips (foliage-feeding thrips only)	16
For suppression of disease symptoms of: Citrus tristeza virus (CTV) through vector control Citrus yellows	
Application Methods	
Apply specified dosage of this product in one of the following methods:	

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. Apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil must be lightly pre-wetted to break soil surface tension prior to applications of this product. Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move this product into root zone. Allow 24 hours before initiating subsequent irrigations; OR
2. Soil surface band spray on both sides of the tree. Bands must overlap at the tree base to create a continuous band within the drip-line area of the tree, to be followed immediately with light sprinkler irrigation sufficient to move the product into the upper portion of the root zone. This method is suitable for very coarse soils with 0.75% organic matter or less; OR
3. Drench to base of tree not exceeding one quart total solution per tree immediately around trunk of tree and extending outward covering the entire fibrous root system of the tree. Only for trees up to 8 feet tall; OR
4. For control of existing termite infestations, apply specified dosage in 1 to 4 quarts of total solution volume, depending on size of tree, as a drench application to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk; OR
5. For suppression of citrus nematode, apply specific dosage through low pressure chemigation or soil surface spray only, ensuring complete coverage of the root system and utilizing application directions stated above for the respective application method. Repeated and regular use of this product over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response.

Restrictions

Pre-Harvest Interval (PHI): **0 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

FOLIAR APPLICATIONS

Pests	Fluid ounces/100 gallons	Fluid ounces/Acre
For control of: Aphids Asian citrus psyllid Black fly Leafhoppers/Sharpshooters Leafminers Mealybugs Scales[1] Whiteflies	1.4 – 2.0 (dilute application)	4.0 – 8.0 (depending on tree size, target pest, and infestation pressure)
For suppression of: Thrips (foliage-feeding thrips only)	2.0	8.0

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply through properly calibrated ground or aerial equipment.

Remarks

Aerial application of this product may result in slower activity and reduced control compared to ground application. Where higher rate applications are appropriate, increase the spray solution concentration to apply an equivalent rate per acre to that applied in the diluted application. The 8.0 fluid ounce/Acre rate is based on full sized trees. This rate may be reduced proportionally for smaller trees.
[1]Scales - time applications to the crawler stage. Treat each generation.

Restrictions

Pre-Harvest Interval (PHI): **0 days**
Minimum interval between sprays: **10 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

POME FRUIT: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids (including Wooly apple aphid) Leafhoppers	8.0 – 12.0

Application Methods

Apply specified dosage of this product in the following method: Chemigation into root-zone through low-pressure (drip, trickle, micro-sprinkler or equivalent) equipment.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Maximum amount of product allowed per calendar year: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

FOLIAR APPLICATIONS

Pests	Fluid ounces/100 gallons	Fluid ounces/Acre
For control of:	0.4 – 0.8	1.6 – 3.2

Leafhoppers		
For control of: Aphids (except Woolly apple aphid) Apple maggot Leafminers San Jose scale	0.8	3.2
For use on Pears Only to control: Mealybugs Pear psylla	2.0	8.0
Application Methods		
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.		
Remarks		
Combine applications targeting apple maggot with manufacturer's specified rate of a sticker.		
Restrictions		
Pre-Harvest Interval (PHI): **7 days** Minimum interval between sprays: **10 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.		

POMEGRANATE

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers/Sharpshooters Whiteflies	8.0 – 16.0

Application Methods

Apply specified dosage of this product in the following method: Chemigation into root-zone through low-pressure (drip, trickle, micro-sprinkler or equivalent) equipment.

Restrictions

Pre-Harvest Interval (PHI): **0 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.5 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers/Sharpshooters Whiteflies	3.2
For suppression of: Scales	

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.

Restrictions

Pre-Harvest Interval (PHI): **7 days**
Minimum interval between sprays: **7 days**
Maximum amount of product allowed per calendar year: **9.6 fluid ounces/Acre** (0.3 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

STONE FRUIT: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

PRE-PLANT ROOT DIP APPLICATIONS

Pests	Fluid ounces/10 gallons root dip solution
For control of: Black peach aphid (infesting roots)	1.0

Application Methods

Mix this product at a rate of 1.0 fluid ounce per 10 gallons of water. Thoroughly wet bare-root transplant to slightly above the graft union by soaking roots in this product's solution for up to 5 minutes. Allow solution to dry on roots and transplant trees as soon as possible following treatment.

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids (including Wooly apple aphid) Leafhoppers	8.0 – 12.0

Application Methods

Apply specified dosage of this product in the following method: Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Restrictions

Pre-Harvest Interval (PHI): **21 days**
Maximum amount of product allowed per calendar year: **12.0 fluid ounces/Acre** (0.38 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

FOLIAR APPLICATIONS

Pests	Fluid ounces/100 gallons	Fluid ounces/Acre
For control of: Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters	0.8	1.6 – 3.2

Plant bugs Rose chafer San Jose scale		
For control of: Cherry fruit fly (maggot of Eastern & Western)		2.4 – 3.2
For suppression of: Plum curculio Stinkbugs		3.2

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.

Restrictions

Apricot, Nectarine, Peach:
Pre-Harvest Interval (PHI): **0 days**
Minimum interval between applications**: 7 days**
Maximum amount of product allowed per crop season: **9.6 fluid ounces/Acre** (0.30 lb. AI/A)
Minimum application volume (water): **Ground: 50 GPA**; **Air: 25 GPA**
DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

Cherry, Plum, Plumcot, Prune:
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **10 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)
Minimum application volume (water): **Ground: 50 GPA; Air: 25 GPA**
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

TREE NUTS except Almonds: Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers/Sharpshooters Mealybugs Spittlebugs Termites Whiteflies	8.0 – 16.0
For suppression of: Thrips (foliage-feeding only)	16.0
For suppression of disease symptoms of: Pecan scab (from reduction in honeydew deposition)	

Application Methods

Apply specified dosage prior to or at onset of pest infestation in one of the following methods:

1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. Pre-wet soil prior to applications of this product and allow soil to dry following application and prior to subsequent irrigation; OR
2. Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site; OR
3. Shank or subsurface side-dress, injected to a depth just above or just within the root zone and between the trunk and drip line of the tree canopy. Apply this product in a minimum of 10 gallons per acre using multiple shanks on both sides of trees. Ensure product placement is below sod or orchard floor debris. Irrigation covering entire treated area must follow within 48 hours to promote uptake by root system; OR
4. For control of termites, apply specified dosage to slightly moist soil as a high-volume drench to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk. Utilize sufficient carrier volume to penetrate the soil to a depth of 18 to 24 inches. Allow soil to dry following treatment and prior to applying any irrigation.

Remarks

Use higher specified rates within the rate range when applied by shank or subsurface side-dress, used on larger trees, soils with high clay content, for high plant populations, and/or where extended control is desired. Under some conditions, control may not occur for 14 or more days or until two (2) irrigations have been made. Applications made later in the season may result in reduced efficacy.

Restrictions

DO NOT apply in Almonds
Pre-Harvest Interval (PHI): **7 days**
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)
DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids (except Black pecan aphid) Leafhoppers/Sharpshooters *Phylloxera* spp. (leaf infestations) Spittlebugs Whiteflies	1.4 – 2.8
For control of: Black pecan aphid Mealybugs San Jose scale[1]	3.2
Application Methods	
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.	
Remarks	
[1]Applications for control of San Jose scale must be timed according to crawler stage, treating each successive generation. Two applications on a 10 to 14-day interval may be required to achieve control.	
Restrictions	
DO NOT apply in Almonds Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications**: 6 days** Maximum amount of product allowed per calendar year**: 11.5 fluid ounces/Acre** (0.36 lb. AI/A) Minimum application volume (water): **Ground: 50 GPA; Air: 25 GPA** **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.	

BANANA and PLANTAIN

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers	8.0 – 16.0
For suppression of: Scales	
Application Methods	
Apply specified dosage of this product in the following method: Chemigation into root-zone through low-pressure (drip, trickle, micro-sprinkler or equivalent) equipment.	
Restrictions	
Pre-Harvest Interval (PHI): **0 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)	

FOLIAR APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Leafhoppers Thrips	3.2
Application Methods	
Apply specified dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.	
Remarks	
Aerial application of this product may result in slower activity and reduced control relative to results from ground application. Addition of an organosilicone adjuvant at a rate not to exceed 2.0 fluid ounces/100 gallons finished spray solution may improve coverage and pest control.	
Restrictions	
Pre-Harvest Interval (PHI): **0 days** Minimum interval between applications**: 14 days** Maximum amount of product allowed per calendar year**: 16.0 fluid ounces/Acre** (0.5 lb. AI/A)	

TROPICAL FRUIT: Acerola, Atemoya, Avocado, Biriba, Black sapote, Canistel, Cherimoya, Custard apple, Feijoa, Jaboticaba, Guava, Llama, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Persimmon, Pulasan, Rambutan, Sapodilla, Soursop, Spanish lime, Star apple, Starfruit, Sugar apple, Wax jambu.

SOIL APPLICATIONS

Pests	Fluid ounces/Acre
For control of: Aphids Avocado lacebug Leafhoppers Whiteflies	12.0 – 16.0
For suppression of: Scales Thrips (foliage-feeding thrips only)	16.0
Application Methods	
Apply specified dosage of this product in the following method: Chemigation into root-zone through low-pressure (drip, trickle, micro-sprinkler or equivalent) equipment.	
Restrictions	
Pre-Harvest Interval (PHI): **6 days** Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)	
FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: Aphids Leafhoppers/Sharpshooters Mealybugs Thrips Whiteflies	3.2
For suppression of: Thrips	
Application Methods	
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.	
Remarks	
Ground applications of this product are more effective than aerial applications.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications**: 10 days** Maximum amount of product allowed per calendar year**: 16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or within 10 days prior to bloom or when bees are foraging.	

OTHER CROPS

Christmas Trees

SOIL APPLICATIONS	
Pests	**Fluid ounces/Acre**
For control of: White grub complex (e.g., grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle)	8.0 – 16.0
Application Methods	
Soil incorporation and movement of this product to the root zone is required for activity. This product can be incorporated most readily when applied to moist soil. Apply specified dosage in one of the following methods: 1. Chemigation into root zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; OR 2. 18-inch band on each side of the row (small trees) to full broadcast application (large trees) followed by rainfall or 0.25 to 1 inch of irrigation within 12 hours after application.	
Remarks	
Apply this product during adult flight activity, or up to mid-July, when first instar larvae are present.	
Restrictions	
Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)	
FOLIAR APPLICATIONS	
Pests	**Fluid ounces/Acre**

For control of: Aphids Adelgids Sawflies	1.6 – 3.2

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.

Remarks

Ground applications of this product are more effective than aerial applications.
For gall-forming adelgids, time applications to coincide with full bud-swell or first bud-break of earliest bud-breaking trees. Once galls form spraying this product is ineffective.

Restrictions

Minimum interval between applications**: 7 days**
Maximum amount of product allowed per calendar year**: 16.0 fluid ounces/Acre** (0.5 lb. AI/A)

Poplar/Cottonwood: (including members of the genus *Populus* grown for pulp or timber)

SOIL APPLICATIONS[1]

Pests	Fluid ounces/Acre
For control of: Aphids Cottonwood leaf beetle	8.0 – 16.0
For suppression of: *Phylloxerina popularia*	

Application Methods

Apply specified dosage of this product in one of the following methods:

1. Chemigation through low-pressure drip irrigation; OR
2. For narrow row, cutting orchards/nurseries used for plant propagation, shank into root zone followed by adequate irrigation to promote uptake. Adequate irrigation depends on soil moisture level at application. Under dry conditions 0.25 inch/acre is recommended.

Remarks

For Cottonwood leaf beetle, protection against damage will occur when application is made early-season, when beetles first begin feeding. Larger trees may require earlier treatment as a result of slower uptake. For *Phylloxerina,* apply early in the year, from break of dormancy through May.

Restrictions

Maximum amount of product allowed per calendar year: **16.0 fluid ounces/Acre** (0.50 lb. AI/A)
[1] This use is not permitted in California unless otherwise directed by state approved 24(c) labeling.

CUTTING/WHIP APPLICATIONS[1]

Pests	Soaking Solution Fluid ounces needed per 100 gallons
For control of: Cottonwood leaf beetle	6.65 to 13.3 (unhydrated cuttings/whips) 13.3 to 20.0 (partially hydrated cuttings/whips)
For suppression of: Aphids *Phylloxerina popularia*	13.3 (unhydrated cuttings/whips) 20.0 (partially hydrated cuttings/whips)

Application Methods

Apply this product in one of the following cuttings/whips soaking methods:

1. For freshly cut (hydrated) cuttings/whips, soak plant material in specified solution concentration for 24 hours prior to cold storage. After removal from cold storage, plant as needed; OR
2. For previously hydrated cuttings/whips removed from cold storage, allow plant material to reach room temperature and soak in specified solution concentration for 24 hours prior to planting.

Take proper care in disposal of any residual soaking solution. Apply solution to existing trees or other registered crops as long as all product label precautions and restrictions are observed.

Remarks

The moisture content prior to application of the cuttings/whips, the solution concentration and the length of soaking interval interact to affect the amount of product absorbed into plant material. For a constant soaking interval of 24 hours, dry cuttings/whips absorb a higher quantity of solution and require a lower concentration. Conversely, more hydrated cuttings/whips absorb less solution and require a higher concentration. Soaking of cuttings/whips must occur in a covered container in absence of UV light. Not all *Populus* sp. clones/varieties/hybrids have been tested for crop safety. Without specific knowledge about a particular *Populus* sp. clone/variety/hybrid, a small number of cuttings/whips of each must be treated and evaluated prior to commercial use.

Restrictions

Maximum amount of product allowed at plant per calendar year**: 16.0 fluid ounces/Acre** (0.5 lb. AI/A)
[1] This use is not permitted in California unless otherwise directed by state approved 24(c) labeling.

FOLIAR APPLICATIONS[1]

Pests	Fluid ounces/Acre

For control of: Aphids Leaf beetles	1.6 – 3.2
Application Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground, aerial or chemigation application equipment. Thorough coverage of foliage is necessary.	
Remarks	
Ground application of this product is more effective than aerial application for these crops.	
Restrictions	
Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications: **10 days** Maximum amount of product allowed per season**: 16.0 fluid ounces/Acre** (0.5 lb. AI/A) **DO NOT** apply during bloom or with 10 days prior to bloom or when honeybees are foraging. [1]Use as a foliar application to Poplar/Cottonwood is not permitted in California unless otherwise directed by state approved 24(c) labeling.	

COMMERCIAL POULTRY FACILITIES

POULTRY HOUSING STRUCTURES

Pests	Fluid ounces / 1,000 ft^2
For control of: Darkling beetles Hide beetles (Dermestids)	3.0 (90 ml)
Application Methods	
Apply between flocks after de-caking and sanitation procedures have been completed. Apply as a spot, crack and crevice, or surface spray on floors, walls, and support beams of structure. Apply using a minimum of 1/2 to 2 gallons of spray mixture per 1000 square feet. To prepare the spray mixture, fill the spray tank with 1/2 the required amount of water, then add the specified amount of product. Add the remaining water while agitating or mixing. Maintain constant agitation while applying. Apply spray mixture to the entire footing including 1 foot up the wall above the footing, and in 3 to 4 foot wide bands directly beneath all feed lines. The areas beneath the feed lines typically harbor large numbers of adult and larval stages of the target pest when an infestation occurs. Measure these areas to determine the appropriate amount of spray mixture to apply. For structures that are prone to large infestations, treat the footings including 1 foot up the wall and the entire floor area of the structure. Cracks and crevice areas also are prone to large infestations of the target pest. Apply as a crack and crevice treatment around wall insulation or other areas that may harbor the target pest. If structures have supporting beams, treat the floor with a 1 foot band around each beam and apply 2 feet up the beam. For structures prone to extreme infestation, treat the entire structure with a broadcast application. Apply 3.0 fluid ounces in 2 gallons of water per 1000 square feet of surface. Apply as a broadcast spray to areas where litter has accumulated (floor, under feed and water lines, lower sections of walls, corners).	
Remarks	
In order to avoid problems with pest resistance to imidacloprid, rotate to an insecticide with a different mode of action every 2-3 flocks. Rotate between 3 different insecticide mode of action classes labeled for control of target pests during a calendar year.	
Restrictions	
DO NOT apply when birds are present or within 7 days of bird placement. **DO NOT** allow food or feed to be contacted by the spray. Remove feed and water from the treatment area before applying. When treating the perimeter, do not allow this product to contact plants in bloom if bees are foraging the treatment area.	
Pests	**Fluid ounces / Gallon**
For control of: Nuisance ants	0.125 – 0.25 (3/4 – 1.5 TSP)
Application Methods	
Apply as a crack and crevice or wall void treatment inside structures. Apply to cracks, crevices, drilled holes, onto walls, around entry points such as doors, windows, vents, eaves, soffits, and utility access openings. If nests are present in voids, apply into the void if possible. Apply evenly to treatment surfaces but not to the point of runoff. Apply to areas around the exterior of the structure where ants may be present (soil, turf, ornamental shrubs and plantings, and groundcover in close proximity to or touching the structure). For above-ground nests, such as in wood posts, decks, or fences, or in trees, spray into holes/openings where ants are traveling and on the wood surface.	
Restrictions	
DO NOT use for control of native or imported fire ants, harvester ants or pharaoh ants. Keep people and pets out of treated areas until sprays have dried.	

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. **DO NOT** walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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

CONTAINER DISPOSAL [HANDLING]:

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Nonrefillable containers larger 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 1/4 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 mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or 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.

[Refillable containers larger than 5 gallons]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable containers for return to Winfield Solutions, LLC]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Close all openings and replace all caps. Contact Winfield Solutions, LLC to arrange for return of the empty refillable container.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULARTRADE USAGE.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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