



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

July 17, 2024

Karol Krey  
Manager of Regulatory and Industry Affairs  
ISK Biosciences Corporation  
7470 Auburn Road, Suite A  
Concord, Ohio 44077

Subject: PRIA Label Amendment – New uses on greenhouse lettuce and cucumber  
Product Name: Cyclaniliprole 50SL Ornamental Insecticide  
EPA Registration Number: 71512-32  
Application Date: 11/16/2022  
Case Number: 483963, 472365, & 475913

Dear Karol Krey:

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under FIFRA section 3(c)(5).

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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

substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Scott Campbell at [Campbell.scott@epa.gov](mailto:Campbell.scott@epa.gov).

Sincerely,



Deanna Colby, Ph.D., Branch Chief  
Invertebrate and Vertebrate Branch 3  
Registration Division  
Office of Pesticides Programs

Enclosure



## CYCLANILIPROLE 50SL ORNAMENTAL INSECTICIDE

With the active ingredient Cyclapryn®

Not for residential use.

For use on ornamentals, conifers, Christmas trees and plants grown in commercial greenhouses, shadehouses and nurseries

ACTIVE INGREDIENT: Cyclaniliprole\* ..... 4.55%  
OTHER INGREDIENTS: ..... 95.45%  
Total..... 100.0%

\*3-bromo-*N*-[2-bromo-4-chloro-6[[[1-cyclopropylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1*H*-3-pyrazole-5-carboxamide

Contains 0.42 pounds Cyclaniliprole per Gallon (50 grams per liter)

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**See inside booklet for Precautionary Statements and Directions for Use.**

**Read entire label carefully and use only as directed.**

**ISK Biosciences Corporation**

7470 Auburn Road, Suite A  
Concord, Ohio 44077 U.S.A.

EPA Reg. No. 71512-32

EPA Est. No.

**Net Contents:**

FIRST AID	
<b>If on skin</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of soap and water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p align="center"><b>HOT LINE NUMBER</b></p> <p align="center">For <b>24-Hour Medical Emergency Assistance</b> (Human or Animal) Call <b>1-888-484-7546</b>.</p> <p align="center">For <b>Chemical Emergency</b>, Spill, Leak, Fire or Accident, Call <b>CHEMTREC 1-800-424-9300</b>.</p>	

**ACCEPTED**

**07/17/2024**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 71512-32

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of any waterproof material (such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton), and protective eyewear.

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

#### Engineering Control Statements

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

#### User Safety Recommendations

Users should:

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

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## ENVIRONMENTAL HAZARDS

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This pesticide is toxic to aquatic invertebrates and oysters. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites. This product is highly toxic to bees and other

pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms. Do not apply this product or allow it to drift to blooming crops or weeds while bees or other pollinating insects are foraging the treatment area.

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate waters when disposing of equipment washwater or rinsate. DO NOT apply when weather conditions favor drift from the treated areas. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they must be observed.

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## DIRECTIONS FOR USE

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

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

## 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 four (4) hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, are: coveralls, chemical resistant gloves made of waterproof material (such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton), shoes plus socks, and protective eyewear.

Commercial greenhouses and nurseries are within the scope of the Worker Protection Standard.

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR PEST CONTROL.

### **Product Restrictions: Not for residential use.**

#### **New York State Only:**

The following restrictions are required to permit use of CYCLANILIPROLE 50SL in the State of New York:

- Aerial application is prohibited in New York State.
- In New York State, a 25 ft. vegetated and non-cropped buffer strip untraversed by drainage tiles, must be maintained between the treatment area and lakes, rivers, reservoirs, permanent streams, marshes, natural ponds, estuaries or coastal areas.
- **Nassau and Suffolk Counties, State of New York:** Cyclaniliprole 50SL Insecticide may only be applied for listed greenhouse uses. DO NOT apply Cyclaniliprole 50SL Insecticide to any outdoor use site, including shade houses, lath houses or other non-enclosed ornamental production structures.

### **Product INFORMATION**

CYCLANILIPROLE 50SL ORNAMENTAL INSECTICIDE is an insecticide with contact activity for use on ornamentals, conifers, Christmas trees and plants grown in commercial greenhouses, shadehouses and nurseries, and will also assist with control of soil-dwelling pests, such as white grubs, that feed on the roots and stems of these plants. CYCLANILIPROLE 50SL must be applied in

protective programs and used in rotation with products with a different mode of action.

### **MIXING AND SPRAYING**

CYCLANILIPROLE 50SL can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for pest control.

NOTE: Slowly invert container several times to assure uniform mixture of formulation before adding this product to the spray tank.

CYCLANILIPROLE 50SL may be applied with all types of spray equipment normally used for ground, chemigation and through sprinkler irrigation applications and aerial applications.

The required amount of CYCLANILIPROLE 50SL should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount of CYCLANILIPROLE 50SL in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations. DO NOT allow spray mixture to stand overnight or for prolonged periods. Prepare only the amount of spray required for immediate use. Spraying equipment should be thoroughly cleaned immediately after the application.

Apply CYCLANILIPROLE 50SL in sufficient water to obtain adequate coverage of the foliage. Gallonage to be used will vary by the size of the ornamental plant and amount of growth. Spray volume will usually range from 20 to 100 gallons per acre (200 to 1000 liters per hectare) for dilute sprays, and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground and aerial sprays. For aerial applications, apply CYCLANILIPROLE 50SL in a minimum of 5 gallons of water per acre. For application through sprinkler irrigation systems see application and calibration instructions below.

### **TANK MIX COMPATIBILITY**

CYCLANILIPROLE 50SL is physically compatible (no nozzle or screen blockage) with many products recommended for control of diseases and insects on ornamentals. Read and follow all manufacturer's label recommendations for the tank mix companion product. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended ornamental crop. CYCLANILIPROLE 50SL is generally compatible with other insecticides, fungicides, adjuvants, fertilizers and micronutrient products provided sufficient free water is

available for dispersion of all the tank mix products. The use of a high quality adjuvant at a rate of 0.025% to 0.1% on volume to volume basis may improve performance under extreme conditions. However, not all ornamental varieties have been tested with all possible tank mix combinations. Thus the combination should be tested for plant safety on a small portion of the ornamental crop to ensure that a phytotoxic response will not occur. In addition, the physical compatibility of CYCLANILIPROLE 50SL with tank mix partners must be evaluated before use. Conduct a jar test with intended tank-mix pesticides prior to preparation of large volumes. Use the following procedure: 1) Pour the recommended proportions of the products into a suitable container of water, Add the products to be tank-mixed in the following order: (a) wettable powders (b) dry flowable, (c) aqueous suspensions, (d) CYCLANILIPROLE 50SL (e) liquids, (f) solutions and emulsifiable liquid concentrates, 2) Mix thoroughly and 3) Allow to stand for 5 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that CYCLANILIPROLE 50SL should not be used in the tank-mix.

## **INTEGRATED PEST MANAGEMENT**

CYCLANILIPROLE 50SL is an excellent insect pest control agent when used according to label directions for control of labeled insect pests. CYCLANILIPROLE 50SL is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of pest-resistant crop varieties, cultural practices, crop rotation, biological control agents, pest scouting and pest forecasting systems aimed at preventing economic pest damage. Practices known to reduce insect pest development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. CYCLANILIPROLE 50SL may be used in State Agricultural Extension advisory (insect pest forecasting) programs that recommend application timing based upon environmental factors that favor insect pest development.

## **RESISTANCE MANAGEMENT**

Some insect pests are known to develop resistance to products used repeatedly for insect control. CYCLANILIPROLE 50SL is an anthranilic diamide in IRAC Group 28 with the mode/target site of action being Ryanodine receptor modulation. An insect pest management program that includes alternation or tank mixes between CYCLANILIPROLE 50SL and other labeled insecticides that have a different mode of action and/or

control insect pests not controlled with CYCLANILIPROLE 50SL is essential to prevent insecticide resistant insect pest populations from developing. CYCLANILIPROLE 50SL should not be utilized continuously nor tank mixed with insecticides that have shown to have developed insecticide resistance to the target insect pest.

Since insect pests differ in their potential to develop resistance to insecticides, follow the directions outlined in the “Directions For Use” section of this label for specific resistance management strategies. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of CYCLANILIPROLE 50SL in programs that seek to minimize the occurrence of insect pest resistance.

Follow these instructions to postpone insecticide resistance unless directed otherwise in the specific directions for use sections of this label:

- Do not use the same mode of action (IRAC group number) on consecutive generations of insect pests.
- Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times per pest generation to the same insect species on an ornamental crop.
- Application to the next generation of insect pest(s) must be with a product with a different mode of action (non-Group 28 insecticide).
- Do not use below the labeled rates of CYCLANILIPROLE 50SL alone or in tank mixtures.
- Applications to the target pest(s) should be made to the most susceptible insect life stages.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- More information on insect resistance is available online from the Insecticide Resistance Action Committee (IRAC) at <http://www.irac-online.org>.



For further information or to report suspected resistance contact ISK Biosciences Corporation at 1-877-706-4640.

## **APPLICATION AND CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION**

Plant injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply CYCLANILIPROLE 50SL through irrigation systems connected to a public water system. "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 per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low-pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

**Always inject CYCLANILIPROLE 50SL into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.**

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

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 irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

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

## **SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

## **AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

### **IMPORTANCE OF DROPLET SIZE**

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions. A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

### **CONTROLLING DROPLET SIZE - GROUND APPLICATION**

**Nozzle Type** - Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.

**Pressure** - The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using

a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.

**Flow Rate/Orifice Size** - Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

### **CONTROLLING DROPLET SIZE - AIRCRAFT**

**Number of Nozzles** -Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.

**Nozzle Orientation** -Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.

**Nozzle Type** -Solid stream, or other low drift nozzles produce the coarsest droplet spectra.

Do not apply as a ULV application.

### **BOOM LENGTH AND HEIGHT**

**Boom Length (aircraft)** -The boom length must not exceed 3/4 of the wing length; using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.

**Boom Height (aircraft)** -Application more than 10 ft. above the canopy increases the potential for spray drift. Applications made at the lowest height consistent with pest control objectives, and the safe operation of the aircraft will reduce the potential for spray drift.

**Boom Height (ground)** -Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind and reduce spray drift potential.

### **WIND**

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID

APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS. Do not make applications when wind speeds are greater than 15 mph.

Note: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

### **SURFACE TEMPERATURE INVERSIONS**

Do not make applications into temperature inversions. Drift potential is high during a surface temperature inversion.

Surface inversions restrict vertical air mixing, which causes small-suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions 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 or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

### **AIR ASSISTED (AIRBLAST) FIELD SPRAYERS**

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

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration.

Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.



DIRECTIONS FOR USE – FOLIAR APPLICATION TO ORNAMENTALS			
Pest	Rate (fl oz/100 gal)	Rate (fl oz / acre)	Instructions
Foliage feeding caterpillars (including Armyworms, Loopers, Webworms, Leafrollers/folders, Gypsy Moth, etc.)	10.9 - 16.4 fl oz.  (0.036 to 0.054 lb. ai/100 gal)	10.9 - 16.4 fl oz.  (0.036 to 0.054 lb. ai/A)	<p><b>Container and Field Grown (Bed) Plants</b> CYCLANILIPROLE 50SL can be applied to ornamentals, including conifers, grown in containers in greenhouses and outdoor nurseries. Apply CYCLANILIPROLE 50SL as a foliar spray in sufficient spray solution to thoroughly wet the foliage to the point of run-off, generally not to exceed 100 gallons per acre. If a larger volume is needed to wet the foliage, do not exceed the maximum rate of 27 fl. oz. per acre (22 fl. oz. per acre in California).</p> <p>Begin applications when pests first appear and reapply on a 7-14 day interval depending upon pest and level of infestation.</p> <p><b>Thrips:</b> CYCLANILIPROLE 50SL provides suppression of adult thrips and control of immature thrips. For best results, use the high label rate of 27 fl. oz. per acre.</p> <p><b>Stink bugs*:</b> CYCLANILIPROLE 50SL provides suppression of stink bug NYMPHS ONLY. Use as a part of an Integrated Pest Management (IPM) program and target the most susceptible life stages and application timings. Use in conjunction with other modes of action and effective control products. Performance is enhanced when used with an effective adjuvant. For best results, use the high labeled rate when targeting stink bug nymphs.</p> <p><b>Mealybugs*:</b> CYCLANILIPROLE 50SL provides suppression of mealybugs. Use as a part of an Integrated Pest Management (IPM) program and in conjunction with other modes of action and effective control products. For best results, use the high labeled rate.</p> <p><b>All labeled pests:</b> For best results and maximum residual control, use the high labeled rate.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on an ornamental crop.</p> <p><b>Restrictions:</b> Foliar application of this product on outdoor ornamental plants during bloom is prohibited from onset of flowering until flowering is complete; unless the rate is limited to 16.4 fl oz/acre (0.054 lb. a.i./acre) and the application is made in the evening when bees are less likely to be actively foraging (2 hours prior to sunset to 8 hours prior to sunrise). (For outdoor applications in California, no more than one application may be made from the onset of flowering until flowering is complete.) Applications must be made when bees are not foraging, adhering to the above restrictions. Minimal interval between treatments is 7 days (14 days in California). Do not apply more than 82 fl oz CYCLANILIPROLE 50SL per acre per calendar year (0.27 lb. a.i./acre/calendar year), except: In California: Do not apply more than 66 fl oz per acre per calendar year (0.22 lb. a.i./acre/calendar year). In New York State: Do not apply more than 54 fl oz per acre per calendar year (0.18 lb. a.i./acre/calendar year).</p>
Foliage feeding beetles (including Japanese beetles, Flea Beetles, Leaf Beetles) Cotton/Melon Aphid Adelgids Lace Bugs Leafminers Mealybugs* Midges Psyllids (including Asian Citrus Psyllid) Sawflies Thrips (foliage feeding)* Whiteflies* Root Weevil Complex (Adults) Soft Scales Borers (beetle and caterpillar) Stink bug spp.*  *Suppression only. Use in conjunction with an effective control program.	16.4 - 27 fl oz.  (0.054 to 0.090 lb. ai/100 gal)	16.4 - 27 fl oz.  (0.054 to 0.090 lb. a.i. /A)	

DIRECTIONS FOR USE – CONTAINER DRENCH APPLICATIONS TO ORNAMENTALS			
Pest	Rate (fl oz/100 gal)	Rate (fl oz / acre)	Instructions
White grub and other larvae of foliage feeding beetles (including Japanese Beetles, Flea Beetles, Leaf Beetles)	16.4 - 27 fl oz.  (0.054 to 0.090 lb. a.i. /A)	16.4 - 27 fl oz.  (0.054 to 0.090 lb. a.i. /A)	<p><b>Application Information and Timing</b> CYCLANILIPROLE 50SL can be applied to ornamentals, including conifers, grown in containers in greenhouses and outdoor nurseries. For larvae of leaf beetles and white grubs, mix the required dose in water and uniformly apply the drench solution to the container surface. Apply the solution to wet the entire container without leaching. For large containers, a light irrigation after drench application may improve contact coverage. For white grub control, apply immediately prior to egg hatch.</p> <p><b>All labeled pests:</b> For best results and maximum residual control, use the high labeled rate.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on an ornamental crop.</p> <p><b>Restrictions:</b> Minimal interval between treatments is 7 days (14 days in California). Do not apply more than 82 fl oz CYCLANILIPROLE 50SL per acre per calendar year (0.27 lb. a.i./acre/calendar year), except: In California: Do not apply more than 66 fl oz per acre per calendar year (0.22 lb. a.i./acre/calendar year). In New York State: Do not apply more than 54 fl oz per acre per calendar year (0.18 lb. a.i./acre/calendar year).</p>

DIRECTIONS FOR USE			
Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Greenhouse Tomatoes (Crop subgroup 8-10A)*</b>	Caterpillars Psyllids Thrips** Whiteflies**  **Suppression only. Use in conjunction with an effective control program.	10.9 to 16.4 fl oz.  (0.036 to 0.054 lb. a.i. /A)	<p><b>Application Instructions:</b> Apply as a foliar directed application for control of caterpillars, psyllids and thrips and for suppression of whiteflies. Thorough coverage is essential. For best results, apply a minimum of 20 gallons water per acre. A commercially appropriate and locally available adjuvant may be added to the tank mixture at a rate recommended by the adjuvant label. For best performance on psyllids and thrips, use the high labeled rate of 16.4 fl oz/A.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop.</p> <p><b>Restrictions:</b> Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless the rate is limited to 0.036 lb. a.i./A and:</p> <ul style="list-style-type: none"> <li>the application is being made in the time period between 2 hours prior to sunset until sunrise;</li> <li>OR,</li> <li>the application is being made at a time when the temperature at the application site is 50 degrees F or less.</li> </ul> <p>(In California no more than one application may be made from the onset of flowering until flowering is complete.)</p> <p>Applications must be made when bees are not foraging, adhering to the above restrictions. 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 bees can be removed, covered or otherwise protected prior to spraying. Do not exceed 16.4 fl. oz. (0.054 lb. a.i./A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 49.2 fl. oz./acre/calendar year (0.16 lb. a.i./acre/calendar year). Minimum interval between treatments is 5 days (14 days in California). Pre-Harvest Interval (PHI) – 1 day</p>
*Includes bush tomato; cocona; currant tomato; garden huckleberry; goji berry; groundcherry; naranjilla; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these			

DIRECTIONS FOR USE			
Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Greenhouse Peppers (Crop subgroup 8-10B)*</b>	Caterpillars Thrips**  **Suppression only. Use in conjunction with an effective control program.	16.4 to 22 fl oz. (0.054 to 0.072 lb. a.i. /A)  or  0.38 to 0.51 fl oz per 1000 sq ft (0.0012 to .0017 lb ai per 1000 sq ft)	<p><b>Application Instructions:</b> Apply as a foliar directed application to control thrips, lepidoptera and pepper weevil. Thorough coverage is essential. For best results, apply a minimum of 50 gallons water per acre. A commercially appropriate and locally available adjuvant may be added to the tank mixture at a rate recommended by the adjuvant label.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop.</p> <p><b>Restrictions:</b> Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless the rate is limited to 0.054 lb. a.i./A and:</p> <ul style="list-style-type: none"> <li>the application is being made in the time period between 2 hours prior to sunset until sunrise; OR,</li> <li>the application is being made at a time when the temperature at the application site is 50 degrees F or less.</li> </ul> <p>(In California no more than one application may be made from the onset of flowering until flowering is complete.) Applications must be made when bees are not foraging, adhering to the above restrictions. 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 bees can be removed, covered or otherwise protected prior to spraying. Do not exceed 27.1 fl. oz. (0.089 lb a.i./A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 81.3 fl. oz./acre/calendar year (0.27 lb. a.i./acre/calendar year). In New York State, do not apply more than 54 fl oz per acre per calendar year (0.18 lb. a.i./acre/calendar year). Minimum interval between treatments is 7 days (14 days in California). Pre-Harvest Interval (PHI) – 0 days</p>
	Pepper weevil	27.1 fl oz. (0.089 lb. a.i. /A)  or  0.62 fl oz per 1000 sq ft (0.002 lb ai per 1000 sq ft)	
*Includes African eggplant; bell pepper; eggplant; martynia; non-bell pepper; okra; pea eggplant; pepino; roselle; scarlet eggplant; cultivars, varieties, and/or hybrids of these			

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl Oz Product Per Acre	Instructions
<b>Greenhouse Cucumber</b>	Cucumber beetle Lepidoptera Thrips	<p style="text-align: center;">27.1 fl oz (0.054 to 0.089 lb. ai/A)</p> <p style="text-align: center;">or</p> <p style="text-align: center;">0.38 to 0.62 fl oz per 1000 sq ft</p> <p style="text-align: center;">(0.0012 to 0.002 lb ai per 1000 sq ft)</p>	<p><b>Application Instructions:</b> Begin applications before populations begin to build and before damage is evident, according to local pest management guidelines. Scout fields often and retreat as necessary to maintain populations below damaging levels, but make no more than 3 applications per year. Rapidly growing plants may need retreatment. Apply CYCLANILIPROLE 50SL in a minimum of 30 gallons of spray solution per acre. Performance may be enhanced when used with methylated seed oil (MSO) or other high quality adjuvants at a rate of 0.025% to 0.1% on a volume to volume basis.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop.</p> <p><b>Restrictions:</b> Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless the rate is limited to 0.054 lb. a.i./A and:</p> <ul style="list-style-type: none"> <li>• the application is being made in the time period between 2 hours prior to sunset until sunrise; OR,</li> <li>• the application is being made at a time when the temperature at the application site is 50 degrees F or less.</li> </ul> <p>In California no more than one application may be made from the onset of flowering until flowering is complete. Applications must be made when bees are not foraging, adhering to the above restrictions.</p> <p>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 bees can be removed, covered or otherwise protected prior to spraying.</p> <p>Do not exceed 27.1 fl oz (0.089 lb ai/A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 81.3 fl oz/acre/calendar year (0.27 lb ai/acre/calendar year). [In New York State, do not apply more than 54 fl oz per acre per calendar year (0.18 lb ai/acre/calendar year).]</p> <p>Minimum interval between treatments is 7 days (14 days in California). Pre-Harvest Interval (PHI) – 0 days</p>



## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl Oz Product Per Acre	Instructions
<b>Greenhouse Lettuce</b>	Beet Armyworm Cabbage looper Corn earworm Cross striped cabbage moth Diamondback moth Imported cabbageworm Flea beetles Fall armyworm Western yellowstriped armyworm Leafminers ( <i>Liriomyza</i> species)	16.4 fl oz  (0.054 lb ai/A)  or  0.38 fl oz per 1000 sq ft  (0.0012 lb ai per 1000 sq ft)	<p><b>Application Instructions:</b> Begin applications before populations begin to build and before damage is evident, according to local pest management guidelines. Scout fields often and retreat as necessary to maintain populations below damaging levels, but make no more than 3 applications per year. Rapidly growing plants may need retreatment. Apply CYCLANILIPROLE 50SL in a minimum of 30 gallons of spray solution per acre. Performance may be enhanced when used with methylated seed oil (MSO) or other high quality adjuvants at a rate of 0.025% to 0.1% on a volume to volume basis.</p> <p><b>Resistance Management:</b> Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop.</p> <p><b>Restrictions:</b> Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless:</p> <ul style="list-style-type: none"> <li>the application is being made in the time period between 2 hours prior to sunset until sunrise; OR,</li> <li>the application is being made at a time when the temperature at the application site is 50 degrees F or less.</li> </ul> <p>In California no more than one application may be made from the onset of flowering until flowering is complete. Applications must be made when bees are not foraging, adhering to the above restrictions.</p> <p>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 bees can be removed, covered or otherwise protected prior to spraying.</p> <p>Do not exceed 16.4 fl oz (0.054 lb ai/A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 49.2 fl oz/acre/calendar year (0.16 lb ai/acre/calendar year). Minimum interval between treatments is 7 days (14 days in California). Pre-Harvest Interval (PHI) – 1 day</p>

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## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container, in a secured, dry, cool place separate from food, pet food, feed, seed and fertilizer. Avoid cross-contamination with other pesticides.

**PESTICIDE DISPOSAL:** Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container (equal to or less than 5 gallons). DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.


Nonrefillable container (greater than 5 gallons). DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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## WARRANTY AND LIMITATION OF DAMAGES

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Seller warrants to those persons lawfully acquiring title to this product that at the time of first sale of this product by Seller that this product conformed to its chemical description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions under normal conditions of use. To the extent consistent with applicable law, buyers and users of this product assume the risk of any use contrary to such directions. **EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.** To the extent consistent with applicable law, in no event shall Seller's liability for any breach of warranty or guaranty exceed the purchase price of the product as to which a claim is made. To the extent consistent with applicable law, Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in Directions for Use of this product, weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.

Cyclapryn® is a registered trademark of  Ishihara Sangyo Kaisha, Ltd.

**CYCLANILIPROLE 50SL O – 07152024**

**ACCEPTED**

07/17/2024

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

71512-32

# **CYCLANILIPROLE 50SL ORNAMENTAL INSECTICIDE** **Supplemental Labeling**

**SUPPLEMENTAL DIRECTIONS FOR THE USE OF**  
**Cyclaniliprole 50SL Ornamental Insecticide (EPA Reg. No. 71512-32)**  
**FOR CONTROL OF LISTED PESTS ON GREENHOUSE LETTUCE**

This Supplemental Label Expires on December 31, 2025 and must not be used or distributed after this date.

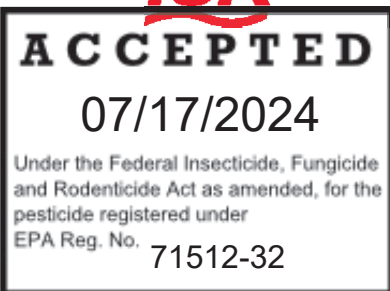
## **Directions for Use:**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in possession of the user at the time of application. Read the label affixed to the container for Cyclaniliprole 50SL Ornamental Insecticide before applying. Use of Cyclaniliprole 50SL Ornamental Insecticide according to this labeling is subject to the use directions, restrictions and precautions imposed by the label affixed to the container for Cyclaniliprole 50SL Ornamental Insecticide.

CROP: GREENHOUSE LETTUCE (1 DAY PHI)	
PESTS	RATE PER ACRE
Beet Armyworm	16.4 fl oz
Cabbage looper	(0.054 lb ai/A)
Corn earworm	
Cross striped cabbage moth	or
Diamondback moth	0.38 fl oz per 1000 sq ft
Imported cabbageworm	(0.0012 lb ai per 1000 sq ft)
Flea beetles	
Fall armyworm	
Western yellowstriped armyworm	
Leafminers ( <i>Liriomyza</i> species)	
APPLICATION DIRECTIONS	
<p>Begin applications before populations begin to build and before damage is evident, according to local pest management guidelines. Scout fields often and retreat as necessary to maintain populations below damaging levels, but make no more than 3 applications per year. Rapidly growing plants may need retreatment. Apply CYCLANILIPROLE 50SL in a minimum of 30 gallons of spray solution per acre. Performance may be enhanced when used with methylated seed oil (MSO) or other high quality adjuvants at a rate of 0.025% to 0.1% on a volume to volume basis.</p> <p>Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop. Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless the application is being made in the time period between 2 hours prior to sunset until sunrise OR the application is being made at a time when the temperature at the application site is 50 degrees F or less. In California no more than one application may be made from the onset of flowering until flowering is complete. Applications must be made when bees are not foraging, adhering to the above restrictions. 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 bees can be removed, covered or otherwise protected prior to spraying.</p> <p>Do not exceed 16.4 fl. oz. (0.054 lb ai/A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 49.2 fl. oz./acre/calendar year (0.16 lb ai/acre/year). Minimum interval between treatments is 7 days (14 days in California).</p>	

ISK Biosciences Corporation  
7470 Auburn Rd., Suite A  
Concord, Ohio 44077

Warranty and Limitation of Damages: Seller warrants to those persons lawfully acquiring title to this product that at the time of first sale of this product by Seller that this product conformed to its chemical description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions under normal conditions of use. To the extent consistent with applicable law, Buyers and users of this product assume the risk of any use contrary to such directions. **EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.** In no event shall Seller's liability for any breach of warranty or guaranty exceed the purchase price of the product as to which a claim is made. To the extent consistent with applicable law, Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in Directions for Use of this product, weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.



# **CYCLANILIPROLE 50SL ORNAMENTAL INSECTICIDE** **Supplemental Labeling**

**SUPPLEMENTAL DIRECTIONS FOR THE USE OF**  
**Cyclaniliprole 50SL Ornamental Insecticide (EPA Reg. No. 71512-32)**  
**FOR CONTROL OF LISTED PESTS ON GREENHOUSE CUCUMBER**

This Supplemental Label Expires on December 31, 2025 and must not be used or distributed after this date.

## **Directions for Use:**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in possession of the user at the time of application. Read the label affixed to the container for Cyclaniliprole 50SL Ornamental Insecticide before applying. Use of Cyclaniliprole 50SL Ornamental Insecticide according to this labeling is subject to the use directions, restrictions and precautions imposed by the label affixed to the container for Cyclaniliprole 50SL Ornamental Insecticide.

CROP: GREENHOUSE CUCUMBER (0 DAY PHI)	
PESTS	RATE PER ACRE
Cucumber beetle Lepidoptera Thrips	27.1 fl oz (0.054 to 0.089 lb. ai/A)  or  0.38 to 0.62 fl oz per 1000 sq ft (0.0012 to 0.002 lb ai per 1000 sq ft)
APPLICATION DIRECTIONS	
<p>Begin applications before populations begin to build and before damage is evident, according to local pest management guidelines. Scout fields often and retreat as necessary to maintain populations below damaging levels, but make no more than 3 applications per year. Rapidly growing plants may need retreatment. Apply CYCLANILIPROLE 50SL in a minimum of 30 gallons of spray solution per acre. Performance may be enhanced when used with methylated seed oil (MSO) or other high quality adjuvants at a rate of 0.025% to 0.1% on a volume to volume basis.</p> <p>Do not apply CYCLANILIPROLE 50SL or other Group 28 insecticide more than 3 times within a single generation of insect pest(s) on a crop. Foliar application of this product is prohibited to a crop from onset of flowering until flowering is complete unless the rate is limited to 0.054 lb. a.i./A and the application is being made in the time period between 2 hours prior to sunset until sunrise OR the application is being made at a time when the temperature at the application site is 50 degrees F or less. In California no more than one application may be made from the onset of flowering until flowering is complete. Applications must be made when bees are not foraging, adhering to the above restrictions. 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 bees can be removed, covered or otherwise protected prior to spraying.</p> <p>Do not exceed 27.1 fl oz (0.089 lb ai/A) per application. Do not make more than 3 applications per calendar year. Do not apply more than 81.3 fl oz/acre/ calendar year (0.27 lb ai/acre/year). In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb ai/acre/calendar year). Minimum interval between treatments is 7 days (14 days in California).</p>	

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