



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 20, 2019

Andrew Kieniksmann  
Federal & State Registration Manager  
ISK Biosciences Corporation  
7470 Auburn Road, Suite A  
Concord, OH 44077

Subject: PRIA Label Amendment – Addition of the following crop groups to technical insecticide: Citrus fruit (crop group 10-10); Tuberous & corm vegetables (crop group 1C); and berry & small fruit (crop subgroup 13-07A, 13-07B, 13-07E except grape, and 13-07G); Action also includes concurrent PRIA Label Amendment that adjusted the rates of the new uses and certain registered uses

Product Name: Cyclaniliprole 50SL Insecticide  
EPA Registration Number: 71512-26  
Application Date: 21-Dec-2017; 10-Sept-2018  
Decision Number: 537440; 544262

Dear Mr. Kieniksmann:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec 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 the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false

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

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 Matthew Aubuchon by phone at 703 347-0477 or via email at [Aubuchon.Matthew@epa.gov](mailto:Aubuchon.Matthew@epa.gov).

Sincerely,



Catherine Aubee, Chief  
Invertebrate-Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure



**CYCLANILIPROLE 50SL**

**INSECTICIDE**

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

\*3-bromo-*N*-[2-bromo-4-chloro-6[[1-(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 side panel for additional precautionary statements.

Read entire label carefully and use only as directed.

**ISK Biosciences Corporation**

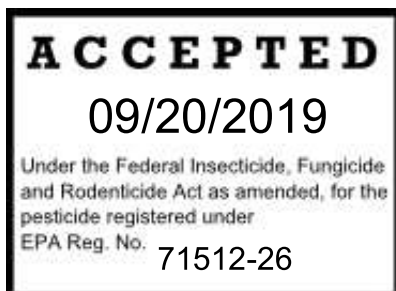
7470 Auburn Road, Suite A  
 Concord, Ohio 44077 U.S.A.

EPA Reg. No. 71512-26

EPA Est. No.

**Net Contents:**

<b>FIRST AID</b>	
<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 by mouth 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.	
<b>HOT LINE NUMBER</b>	
For 24-Hour Medical Emergency Assistance (Human or Animal) Call 1-888-484-7546.	
For Chemical Emergency, Spill, Leak, Fire or Accident, Call <b>CHEMTREC 1-800-424-9300.</b>	



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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 chemical resistant 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, 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 chemical resistant material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton, shoes plus socks, and protective eyewear.

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

### **Product Restrictions**

Do not use in greenhouses.

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

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

- Not for sale, sale into, distribution and/or use in Nassau and Suffolk Counties 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.

### **Product INFORMATION**

CYCLANILIPROLE is an insecticide with foliar activity. CYCLANILIPROLE must be applied in scheduled 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.

Dosage rates on this label indicate fluid ounces of CYCLANILIPROLE 50SL per acre, unless otherwise stated. Under conditions favorable for disease development, the highest rate specified and shortest application interval should be used.

CYCLANILIPROLE 50SL may be applied with all types of spray equipment normally used for ground, chemigation through sprinkler irrigation 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 with crop and amount of plant 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 crops and other additives. 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. 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 methylated seed oil (MSO) or other 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 crop varieties have been tested with all possible tank mix combinations. Thus the combination should be tested for crop safety on a small portion of the 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, 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.

## **ROTATIONAL CROP RESTRICTIONS**

Crops on this label may be planted immediately after the last treatment. Do not plant other crops not registered for this product within 30 days after the last application.

## **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 for each crop. 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 a 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**

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set or portable (wheel move, side roll, end tow, or hand move) irrigation system(s). DO NOT apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop 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.

CYCLANILIPROLE 50SL may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

#### **A. Center Pivot, Motorized Lateral Move and Traveling Gun Irrigation Equipment**

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump of either diaphragm or piston type,

constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately 2-3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Thoroughly mix recommended amount of this product for acreage to be covered into the same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until this product has been cleared from the last sprinkler head.

### **B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment**

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a 30 to 45 minute period. Mix desired amount of CYCLANILIPROLE 50SL for acreage to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration.

Agitation is recommended. CYCLANILIPROLE 50SL can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until this product has been cleared from last sprinkler head.

## **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 CROP SPRAYERS**

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

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

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

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Citrus Fruit (Crop Group 10-10)*</b>	Asian citrus psyllid Citrus leafminer Citrus thrips** Diaprepes root weevil (adults) Cotton/melon aphid  **Suppression Only. Use in conjunction with an effective control program	16.4 to 22.0 fl oz  (0.054 to 0.072 lb. a.i. /A)	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 100-200 gallons water per acre.</p> <p><b>Asian Citrus Psyllid</b> For best results, apply at early flush targeting first generation nymphs using the high rate of 22 fl oz/A. Performance is enhanced when used with an effective adjuvant.</p> <p><b>Diaprepes root weevil adults</b> Time applications at early flush for adult weevils using the high labeled rate. Use of an effective adjuvant enhances performance and is recommended.</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> This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise. For dilute sprays, if higher spray volumes are desired for improved coverage, do not exceed the maximum rate of 0.072 lb ai/A/application.</p> <p>Make no more than 3 applications per year. Minimal interval between treatment is 7 days. Do not apply more than 66 fl oz per acre per year (0.22 lb. a.i./acre/year). [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).] Pre-Harvest Interval (PHI) – 1 day</p>

\*Includes all members of the Citrus Crop Group Family: Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uni fruit; cultivars, varieties, and/or hybrids of these

**DIRECTIONS FOR USE**

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<p><b>Pome Fruit (Crop Group 11-10)*</b></p>	<p>Codling moth Obliquebanded leafroller Green fruitworm Redbanded Leafroller Variegated leafroller Tufted apple budmoth Spotted tentiform leafminer Western tentiform leafminer White apple leafhopper European apple sawfly European corn borer Oriental Fruit moth Western flower thrips** Apple Maggot** Plum Curculio Pear psylla Stink bug spp.**</p> <p>**Suppression Only. Use in conjunction with an effective control program.</p>	<p>10.9 to 22.0 fl oz  (0.036 to 0.072 lb. a.i. /A)</p>	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 100-200 gallons water per acre.  <b>Codling Moth</b> Use the higher rates of 16.4 to 22 fl oz for heavy infestations. Make first application just prior to or at the beginning of egg hatch. Applications typically provide 10-14 days of protection. Use pheromone trap catches and local degree day based spray timing advisories to determine the development of each codling moth generation. For effective resistance management make applications of CYCLANILIPROLE 50SL in one codling moth generation before rotating to an insecticide with a different mode of action (Non- Group 28) in the next generation.  <b>Obliquebanded Leafroller</b> Apply in the pink to petal fall stage at first sign of feeding for overwintering larvae. For summer generation apply just prior to or at the beginning of egg hatch.  <b>Pear Psylla</b> For best results, apply to first generation nymphs using the high rate of 22 fl oz/A. Performance is enhanced when used with an effective adjuvant.  <b>Thrips**</b> Apply in the pink to petal fall stage at the first sign of active feeding.  <b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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.  <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.  <b>Restrictions:</b>  This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.036 to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise.  For dilute sprays, if higher spray volumes are desired for improved coverage, do not exceed the maximum rate of 0.072 lb ai/A/application.  Make no more than 3 applications per year.  Do not exceed 22 fl. oz. (0.072 lb a.i./A) per application.  Do not apply more than 66 fl. oz./acre/year (0.22 lb. a.i./acre/year).  [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).]  Do not exceed the minimum interval between treatment of 14 days.  Pre-Harvest Interval (PHI) – 7 days</p>
<p>*Includes all members of the Pome Crop Group Family: Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.</p>			

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Tree Nuts (Crop Group 14-12)*</b>	Codling moth Navel orange worm Peach twig borer Walnut husk fly Obliquebanded leafroller Oriental fruit moth Pecan nut casebearer Hickory shuckworm Stink bug spp.**	10.9 to 22.0 fl oz  (0.036 to 0.072 lb. a.i. /A)	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 100-200 gallons water per acre.</p> <p><b>Codling Moth</b> Use the higher rates of 16.4 to 22 fl oz for heavy infestations. Make first application just prior to or at the beginning of egg hatch. Applications typically provide 10-14 days of protection. Use pheromone trap catches and local degree day based spray timing advisories to determine the development of each codling moth generation. For effective resistance management make applications of CYCLANILIPROLE 50SL in one codling moth generation before rotating to an insecticide with a different mode of action (Non- Group 28) in the next generation.</p> <p><b>Navel Orange Worm</b> Apply a spring spray for navel orangeworm just after the first eggs of the spring brood hatch. For applications at hullsplit apply once it has been determined that egg laying has begun. Higher rates and multiple applications may be needed depending upon level of infestation.</p> <p><b>Obliquebanded Leafroller</b> For overwintering larvae apply in at first sign of active feeding.</p> <p><b>Peach Twig Borer</b> Use higher rate for heavy infestations and for application to overwintering generations. Applications to summer generations should be timed during peak egg laying periods.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYPHHS ONLY</b>. 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>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> [REVIEWER NOTE: One of the two following options will appear on the label.]                      [Option 1 - This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.036 to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise.]                      [Option 2 - Foliar application of this product is prohibited from onset of flowering until flowering is complete.]</p> <p>For dilute sprays, if higher spray volumes are desired for improved coverage, do not exceed the maximum rate of 0.072 lb ai/A/application.                      Make no more than 3 applications per year.                      Do not exceed 22 fl. oz. (0.072 lb a.i./A) per application.                      Do not apply more than 66 fl. oz./acre/year (0.22 lb. a.i./acre/year).                      [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).]                      Do not exceed the minimum interval between treatment of 14 days.                      Pre-Harvest Interval (PHI) – 30 days</p>

\*Includes all members of the Tree Nut Crop Group Family: African nut-tree; Almond; Beechnut; Brazil nut; Brazilian pine; Bunya; Bur oak; Butternut; Cajou nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito nut; Dika nut; Ginkgo; Guiana chestnut; Hazelnut; Heartnut; Hickory nut; Japanese horse-chestnut; Macadamia nut; Mongongo nut; Monkey-pot; Monkey puzzle nut; Okari nut; Pachira nut; Peach palm nut; Pecan; Pequi; Pili nut; Pine nut; Pistachio; Sapucaia nut; Tropical almond; Walnut, black; Walnut, English; Yellowhorn; cultivars, varieties and/or hybrids of these.

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Stone Fruit (Crop Group 12-12)*</b>	Obliquebanded leafroller Omnivorous leafroller Oriental fruit moth Peach twig borer Codling moth Tufted apple budmoth Cherry fruit fly Western cherry fruit fly Spotted wing drosophila Japanese beetle Western flower thrips** Plum curculio Stink bug spp.**  **Suppression Only. Use in conjunction with an effective control program.	10.9 to 22.0 fl oz  (0.036 to 0.072 lb. a.i. /A)	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 100-200 gallons water per acre.</p> <p><b>Codling Moth:</b> Use the higher rates of 16.4 to 22 fl oz for heavy infestations. Make first application just prior to or at the beginning of egg hatch. Applications typically provide 10-14 days of protection. Use pheromone trap catches and local degree day based spray timing advisories to determine the development of each codling moth generation. For effective resistance management, make applications of CYCLANILIPROLE 50SL in one codling moth generation before rotating to an insecticide with a different mode of action (Non- Group 28) in the next generation.</p> <p><b>Obliquebanded Leafroller</b> Apply in the pink to petal fall stage at the first sign of active feeding. Can also be used later in the growing season at or just prior to egg hatch.</p> <p><b>Peach Twig Borer</b> Can be applied in both the dormant and growing season. Use higher rate for heavy infestations and for application to dormant generations. Applications to summer generations should be timed during peak egg laying periods.</p> <p><b>Thrips</b> Apply in the pink to petal fall stage at the first sign of active feeding.</p> <p><b>Cherry Fruit Fly and Spotted Wing Drosophila</b> Apply at the 22 fl oz rate for best results. Use degree day models to determine application timing. Repeat applications at 7 day intervals depending on weather conditions. Thorough coverage is essential, and multiple applications may be required depending upon level of infestation.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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>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> This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.036 to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise. For dilute sprays, if higher spray volumes are desired for improved coverage, do not exceed the maximum rate of 0.072 lb ai/A/application. Make no more than 3 applications per year. Do not exceed 22 fl. oz. (0.072 lb a.i./A) per application. Do not apply more than 66 fl. oz./acre/year (0.22 lb. a.i./acre/year). [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).] Do not exceed the minimum interval between treatment of 7 days. Pre-Harvest Interval (PHI) – 7 days</p>
<p>*Includes all members of the Stone Fruit Crop Group Family: Apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.</p>			

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Leafy Vegetable Group (Crop Group 4-16)*</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) Western flower thrips** Whiteflies** Stink bug spp.** Cotton (melon) aphid	10.9 to 16.4 fl oz  (0.036 to 0.054 lb. a.i. /A)	<p><b>Application Instructions:</b> <b>Thorough coverage is essential to achieve best results.</b> Use 16.4 fl oz/A if Leafminers or thrips are present.</p> <p><b>Diamondback Moth</b> For resistance management, do not apply Cyclanilprole 50SL to successive generations of diamondback moth, or more than twice within a single generation. Applications to the following generation of diamondback moth should be with an effective non-Group 28 insecticide (different mode of action in different IRAC group). Do not apply less than 10.9 fl. oz per acre for control of diamondback moth.</p> <p><b>Flea beetles</b> For best performance, use the high labeled rate of 16.4 fl oz/A.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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>Aphids</b> For best results use with an effective adjuvant. Use the higher labeled rate for best performance.</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>Make no more than 3 applications per year. Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application. Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year). Do not exceed the minimum interval between treatment of 7 days. Pre-Harvest Interval (PHI) – 1 day</p>

\*Amaranth, Chinese; amaranth, leafy; arugula; aster, Indian; blackjack; broccoli, Chinese; broccoli raab; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; cat's whiskers; cham-chwi; cham-na-mul; chervil, fresh leaves; chipilin; chrysanthemum, garland; cilantro, fresh leaves; collards; corn salad; cosmos; cress, garden; cress, upland; dandelion, leaves; dang-gwi, leaves; dillweed; dock; dol-nam-mul; ebolo; endive; escarole; fameflower; feather cockscomb; good king henry; hanover salad; huauzontle; jute, leaves; kale; lettuce, bitter; lettuce, head; lettuce, leaf; maca, leaves; mizuna; mustard greens; orach; parsley, fresh leaves; plantain, buckhorn; primrose, English; purslane, garden; purslane, winter; radicchio; radish, leaves; rape greens; rocket, wild; shepherd's purse; spinach; spinach, Malabar; spinach, New Zealand; spinach, tanier; Swiss chard; turnip greens; violet, Chinese, leaves; watercress; cultivars, varieties, and hybrids of these commodities

\*\*Suppression only. Use in conjunction with an effective control program.

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Brassica Head and Stem Vegetable Group (Crop Group 5-16)*</b>	Beet armyworm Cabbage looper Corn earworm Cross striped cabbage moth Diamondback moth Imported cabbageworm Fall armyworm Western yellowstriped armyworm Flea beetles Leafminers ( <i>Liriomyza</i> species) Western flower thrips** Whiteflies** Stink bug spp.** Cotton (melon) aphid  **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: Thorough coverage is essential to achieve best results.</b> Use 16.4 fl oz/A if Leafminers or thrips are present.</p> <p><b>Diamondback Moth</b> For resistance management, do not apply Cyclaniliprole 50SL to successive generations of diamondback moth, or more than twice within a single generation. Applications to the following generation of diamondback moth should be with an effective non-Group 28 insecticide (different mode of action in different IRAC group). Do not apply less than 10.9 fl. oz per acre for control of diamondback moth.</p> <p><b>Flea beetles</b> For best performance, use the high labeled rate of 16.4 fl oz/A.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYPHHS ONLY</b>. 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>Aphids</b> For best results use with an effective adjuvant. Use the higher labeled rate for best performance.</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>Make no more than 3 applications per year. Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application. Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year). Do not exceed the minimum interval between treatment of 7 days. Pre-Harvest Interval (PHI) – 1 day</p>

\*Broccoli; Brussels sprouts; cabbage; cabbage, Chinese, napa; cauliflower; cultivars, varieties, and hybrids of these commodities

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Fruiting Vegetables (Crop Group 8-10)*</b>	Beet armyworm Cabbage looper Colorado potato beetle Fall armyworm Southern armyworm Tomato fruitworm Tomato hornworm Tomato pinworm Tomato psyllid Pepper weevil European corn borer Yellow striped armyworm Leafminers ( <i>Liriomyza</i> species) Western flower thrips** Whiteflies** Stink bug spp.** Cotton (melon) aphid  **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: Thorough coverage is essential to achieve best results.</b> Use 16.4 fl oz/A if Leafminers or thrips are present.</p> <p><b>Pepper Weevil</b> For best results, use the high labeled rate of 16.4 fl oz/A.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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>Aphids</b> For best results use with an effective adjuvant. Use the higher labeled rate for best performance.</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>Make no more than 3 applications per year. Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application. Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year). Do not exceed the minimum interval between treatment of 7 days. Pre-Harvest Interval (PHI) – 1 day</p>

\*Includes all members of the Fruiting Vegetable Crop Group Family: African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; nonbell pepper; roselle; scarlet eggplant; 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>Cucurbits Vegetables (Crop Group 9)*</b>	Beet Armyworm Cabbage looper Melon worm Pickleworm Southern armyworm Fall armyworm Striped cucumber beetle Leafminers ( <i>Liriomyza</i> species) Flea beetles Western yellowstriped armyworm Western flower thrips** Onion thrips** Whiteflies** Stink bug spp.** Squash bug** Cotton (melon) aphid  **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: Thorough coverage is essential to achieve best results.</b> Use 16.4 fl oz/A if Leafminers or thrips are present.</p> <p><b>Flea beetles</b> For best performance, use the high labeled rate of 16.4 fl oz/A.</p> <p><b>Stink bugs and Squash bug**</b> CYCLANILIPROLE 50SL provides suppression of stink bug and squash bug <b>NYPHYS ONLY</b>. 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 and squash bug nymphs.</p> <p><b>Aphids</b> For best results, use with an effective adjuvant. Use the high labeled rate for best performance.</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;</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>Make no more than 3 applications per year.                      Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application.                      Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year).                      Do not exceed the minimum interval between treatment of 7 days.                      Pre-Harvest Interval (PHI) – 1 day</p>

\*Includes all members of the Cucurbit Vegetable Crop Group Family: Chayote (fruit); Chinese waxgourd (Chinese preserving melon); Citron melon; 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* (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin; Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash; Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*)

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Tuberous and Corm Vegetables (Crop Subgroup 1C)*</b>	Colorado potato beetle Armyworms Cutworms Loopers European corn borer Tomato hornworm Tobacco hornworm Potato tuberworm Flea beetles Potato psyllid Whiteflies Western flower thrips** Leafminers ( <i>Liriomyza</i> spp.) Cotton/melon aphid  **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> Thorough coverage is essential to achieve best results.</p> <p><b>Potato tuberworm</b> Treat fields at first sign of tuberworm adults/larvae. As a result of overlapping pest generations, repeat applications as necessary while rotating modes of action. Control of tuberworm is necessary prior to senescence/vine kill, and should be done through foliar sprays and chemigation. Use of an effective adjuvant increases efficacy.</p> <p><b>Zebra Chip Disease</b> CYCLANILIPROLE 50SL has been shown to reduce the incidence of zebra chip disease through control of potato psyllids and reduction of psyllid feeding.</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>Make no more than 3 applications per year. Minimal interval between treatment is 5 days.                      Do not apply more than 49.2 fl oz per acre per year (0.16 lb. a.i./acre/year).                      Pre-Harvest Interval (PHI) – 7 days</p>
<p>*Includes all members of the Tuberous and Corm Vegetable Crop Group Family: Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; taniel; turmeric; yam bean; yam, true</p>			

**DIRECTIONS FOR USE**

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<p><b>Berries and Small Fruit</b></p> <p>Caneberry Subgroup 13-07A</p> <p>Bushberry Subgroup 13-07B</p> <p>Small fruit vine climbing subgroup, except grape, subgroup 13-07E</p> <p>Low growing berry subgroup 13-07G (except strawberry)</p>	<p>Spotted wing drosophila Omnivorous leafroller Orange tortrix Obliquebanded leafroller Western flower thrips** Cutworms Armyworms Japanese beetle Light brown apple moth Raspberry crown borer* Cherry fruitworm Cranberry fruitworm Spotted fireworm Blueberry maggot Plum curculio Stink bug spp.** Blueberry gall midge** Grape berry moth Grape leaf folder Redbanded leafroller Grape leaf skeletonizer European grapevine moth</p> <p>**Suppression only. Use in conjunction with an effective control program.</p>	<p>16.4-22 fl oz.  (0.054 to 0.072 lb. a.i. /A)</p>	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the density of foliage. For best results apply 100-150 gallons water per acre.</p> <p><b>Thrips:</b> Apply in the bloom or rapid shoot growth if populations exceed damage threshold.</p> <p><b>Spotted Wing Drosophila:</b> Apply at the 22 fl oz rate for best results. Use degree day models to determine application timing. Repeat applications at 7 day intervals depending on weather conditions. Thorough coverage is essential, and multiple applications may be required depending upon level of infestation.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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>Blueberry gall midge**</b> Suppression only, use in conjunction with effective products for maggot/midge control. Make applications before threshold is reached and population start to build.</p> <p><b>Raspberry crown borer*</b> Apply as a foliar spray in order to control adults/larvae before they reach the soil/root zone. This can be accomplished by a directing the foliar spray towards the base of the canes at high water volume. Multiple applications may be necessary. Use as part of an effective crown borer management program.</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> This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise. Make no more than 3 applications per year. Minimal interval between treatment is 5 days. Do not apply more than 66 fl oz per acre per year (0.22 lb. a.i./acre/year). [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).] Pre-Harvest Interval (PHI) – 1 day</p>

Includes all members of the Caneberry Subgroup 13-07A: Blackberry; loganberry; raspberry, black and red; wild raspberry; cultivars, varieties, and/or hybrids of these

Includes all members of the Bushberry Subgroup 13-07B: Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these

Includes all members of the Small Fruit Vine Climbing Subgroup, except grape, 13-07E: Amur river grape; gooseberry; kiwifruit, fuzzy; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these

Includes members of the Low Growing Berry Subgroup 13-07G: Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; cultivars, varieties, and/or hybrids of these

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Strawberry</b>	Beet Armyworm Corn Earworm Cabbage looper Japanese beetle Light brown apple moth	10.9-16.4 fl oz.  (0.036 to 0.054 lb. a.i. /A)	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the density of foliage. For best results, apply a minimum of 100-150 gallons water per acre. Use 16.4 fl oz/A if Japanese beetles are present.</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>Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application. Make no more than 3 applications per year. Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year). Do not exceed the minimum interval between treatment of 5 days. Pre-Harvest Interval (PHI) – 1 day</p>

## DIRECTIONS FOR USE

Crop	Insects	Use Rate Fl. Oz. Product Per Acre	Instructions
<b>Grapes</b>	Grape berry moth Omnivorous leafroller Western flower thrips** Cutworms Grape leaf folder Orange tortrix Obliquebanded leafroller Redbanded leafroller Grape leaf skeletonizer European grapevine moth Japanese beetle Spotted wing drosophila Stink bug spp.**	16.4-22 fl oz.  (0.054 to 0.072 lb. a.i. /A)	<p><b>Application Instructions:</b>                      For use on all types of grapes (wine, table, raisin, and juice). Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the density of foliage. For best results apply 100-150 gallons water per acre.</p> <p><b>Thrips</b> Apply in the bloom or rapid shoot growth if populations exceed damage threshold.</p> <p><b>Spotted Wing Drosophila</b> Apply at the 22 fl oz rate for best results. Use degree day models to determine application timing. Repeat applications at 7 day intervals depending on weather conditions. Thorough coverage is essential, and multiple applications may be required depending upon level of infestation.</p> <p><b>Stink bugs**</b> CYCLANILIPROLE 50SL provides suppression of stink bug <b>NYMPHS ONLY</b>. 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>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>                      This product has been determined to have a short residual toxicity (RT25) time. Foliar application of this product is prohibited from onset of flowering until flowering is complete unless: The rate is limited to 0.054 lbs. a.i./A and the application is made in the time period between 2 hours prior to sunset and 8 hours prior to sunrise.                      Make no more than 3 applications per year.                      Do not exceed 22 fl. oz. (0.072 lb a.i./A) per application.                      Do not apply more than 66 fl. oz./acre/year (0.22 lb. a.i./acre/year).                      [In New York State, do not apply more than 54 fl oz per acre per year (0.18 lb. a.i./acre/year).]                      Do not exceed the minimum interval between treatment of 7 days.                      Pre-Harvest Interval (PHI) – 7 days</p>

\*\*Suppression only.  
 Use in conjunction with  
 an effective control  
 program.

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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.** 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 – 09182019**

*[REVIEWER NOTE: Lot/batch code printed directly on container]*



Cyclaniliprole 50SL Insecticide  
Supplemental Labeling

SUPPLEMENTAL DIRECTIONS FOR THE USE OF  
Cyclaniliprole 50SL Insecticide (EPA Reg. No. 71512-26)

This Supplemental Label Expires on **September 20, 2021** and must not be used or distributed after this date.

**NOTE:** Follow all applicable directions, restrictions, and precautions on the **Cyclaniliprole 50SL Insecticide** label.

**NOTE:** This labeling must be in the possession of the user at the time of pesticide application.

**Directions for Use:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

CROP: Strawberry		
Pests	Use Rate (Fl. Oz. Product Per Acre)	Specific Use Directions
Beet Armyworm Corn Earworm Cabbage looper Japanese beetle Light brown apple moth	10.9 to 16.4 fl oz  (0.036 to 0.054 lb. a.i. /A)	<p><b>Application Instructions:</b> Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the density of foliage. For best results, apply a minimum of 100-150 gallons water per acre. Use 16.4 fl oz/A if Japanese beetles are present.</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>Do not exceed 16.4 fl. oz. (0.054 lb a.i./A) per application.            Make no more than 3 applications per year.            Do not apply more than 49.2 fl. oz./acre/year (0.16 lb. a.i./acre/year).            Do not exceed the minimum interval between treatment of 5 days.            Pre-Harvest Interval (PHI) – 1 day</p>

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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.