

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

October 25, 2023

Shannon Whitlock Regulatory Leader Corteva Agriscience LLC 9330 Zionsville Road Indianapolis, IN 46268

Subject: PRIA Label Amendment – Section 3 amendments submitted with an IR-4 petition

for a new use on stalk and stem vegetable subgroup 22A; new greenhouse uses on cucumber, lettuce, pepper, and tomato; and a crop group conversion for spice

group 26.

Product Name: Radiant SC

EPA Registration Number: 62719-545

Application Date: 3/30/2022

Case Number: 00478509, 00475306, 00473752

Dear Ms. Whitlock,

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/registration/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

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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 David Drawbaugh at (202) 566-2604or at Drawbaugh. David@epa.gov.

Sincerely,

Ideliz Negron-Digitally signed by Ideliz Negron-Encarnacion

Encarnacion
Date: 2023.10.25 17:24:34
-04'00'

Ideliz Negrón-Encarnación Branch Chief, Invertebrate-Vertebrate Branch 2 Registration Division (7505T) Office of Pesticide Programs U.S. Environmental Protection Agency

Revision: Letter updated to replace decision numbers with case numbers.

Enclosure

(Base label):

SPINETORAM GROUP 5 INSECTICIDE

Radiant® SC

INSECTICIDE Jemvelva^{™®} Active

For control or suppression of lepidopterous larvae (worms, caterpillars), dipterous leafminers, thrips, and certain psyllids.

Active Ingredient:

Contains 1 lb of active ingredient per gallon (120 g ai/liter)

ACCEPTED 10/25/2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 62719-545

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

User Safety Recommendations

Users should:

· Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when

disposing of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Applying this product when rain is not predicted for the next 24 hours will help reduce potential risk to aquatic invertebrates by reducing pesticide runoff from the treatment area into water bodies. 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 reduce risk to these organisms. Apply this product only as specified on the label.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Nonrefillable rigid containers 5 gallons or less:

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

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

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 gal:

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

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

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refer to inside of label booklet for additional precautionary information including First Aid and Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Shake Well Before Use Avoid Freezing		
EPA Reg. No. 62719-545	EPA Est.	
™® Trademarks of Corteva Agriscience and its affiliated companies.		

Produced for Corteva Agriscience LLC 9330 Zionsville Road Indianapolis, IN 46268

NET CONTENTS ___

(cover, shipping container):

SPINETORAM	GROUP	5	INSECTICIDE
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Radiant® SC

INSECTICIDE Jemvelva^{™®} Active

For control or suppression of lepidopterous larvae (worms, caterpillars), dipterous leafminers, thrips, and certain psyllids.

Active Ingredient:

spinetoram (a mixture of

spinetoram-J and spinetoram-L)11.7%

Other Ingredients88.3%

Total100.0%

Contains 1 lb of active ingredient per gallon (120 g ai/liter)

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for additional precautionary information including First Aid and **Directions for Use.**

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(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- · Shoes plus socks

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

User Safety Recommendations

Users should:

• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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Environmental Hazards

This product is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Applying this product when rain is not predicted for the next 24 hours will help reduce potential risk to aquatic invertebrates by reducing pesticide runoff from the treatment area into water bodies. 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. Apply this product only as specified on the label.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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 state or tribal 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, restricted entry interval, and notification to workers (as applicable). 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 4 hours.

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

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

Nonrefillable rigid containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

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equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information

Radiant™ SC insecticide is used for control or suppression of many foliage feeding pests including lepidopterous larvae (worms or caterpillars), thrips, Colorado potato beetles, dipterous leafminers, and certain psyllids infesting labeled crops. This product's active ingredient, spinetoram, is derived from the fermentation of *Saccharopolyspora spinosa*, a naturally occurring soil organism. Mix the suspension concentrate of Radiant SC with water and apply as a foliar spray with aerial or ground equipment suitable for conventional insecticide spraying.

Product Use Precautions

Integrated Pest Management (IPM) Programs

Radiant SC is recommended for IPM programs in labeled crops. Apply Radiant SC when field scouting indicates target pest densities have reached the economic threshold, i.e., the point at which the insect population must be reduced to avoid economic losses beyond the cost of control. Other than reducing the target pest species as a food source, Radiant SC does not have a significant impact on certain parasitic insects or the natural predaceous arthropod complex in treated crops, including big-eyed bugs, ladybird beetles, flower bugs, lacewings, minute pirate bugs, damsel bugs, assassin bugs, predatory mites or spiders. The feeding activities of these beneficials will aid in natural control of other insects and reduce the likelihood of secondary pest outbreaks. If Radiant SC is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, the full benefit of Radiant SC in an IPM program may be reduced.

Insect Resistance Management (IRM)

For resistance management, Radiant SC contains spinetoram, a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Radiant SC and other Group 5 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay development of insecticide resistance, the following practices are recommended:

- Carefully follow the specific label guidelines within the Use Direction sections of this label, especially in regard to IRM recommendations.
- Rotate the use of Radiant SC or other Group 5 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest
 when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population.
 Consider any known cross-resistance issues (for the targeted pests) between the individual
 components of a mixture. In addition, consider the following recommendation provided by the
 Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one of both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two
 components have similar periods of residual insecticidal activity. Mixtures of insecticides with
 unequal periods of residual insecticide activity may offer an insect resistance management benefit

only for the period where both insecticides are active.

- Applications should be targeted against early insect developmental stages whenever possible.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses
 historical information related to pesticide use, crop rotation, record keeping, and which considers
 cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problem.
- For further information or to report suspected resistance, contact your local Corteva Agriscience by calling 800-258-3033.

Mixing Directions

Always shake well before use. Avoid freezing.

Application Rate Chart for Crop Uses

Application Rate of Radiant SC (fl oz/acre)	Active Ingredient Equivalent (Ib ai/acre)
14	0.1094
13	0.1016
12	0.0938
11	0.0859
10	0.0781
9.5	0.0742
9	0.0703
8.5	0.0664
8	0.0625
7.5	0.0586
7	0.0547
6.5	0.0508
6	0.0469
5.5	0.0430
5	0.0391
4.5	0.0352
4	0.0313
3.5	0.0273
3	0.0234
2.5	0.0195
2	0.0156

Radiant SC - Alone: Fill the spray tank with water to about 1/2 of the required spray volume. Start agitation and add the required amount of Radiant SC. Continue agitation while mixing and filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

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.

Radiant SC - Tank Mix: When tank mixing Radiant SC with other materials, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. If foliar fertilizers are used, the jar test should be repeated with each batch of fertilizer

utilizing the mixing water source. Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.

Mixing Order for Tank Mixes: Fill the spray tank with water to 1/4 to 1/3 of the required spray volume. Start agitation. Add different formulation types in the order indicated below, allowing time for complete dispersion and mixing after addition of each product. Allow extra dispersion and mixing time for dry flowable products.

Add different formulation types in the following order:

- 1. Water dispersible granules
- 2. Wettable powders
- 3. Radiant SC and other aqueous suspensions

Maintain agitation and fill spray tank to 3/4 of total spray volume. Then add:

- 4. Emulsifiable concentrates and water-based solutions
- 5. Spray adjuvants, surfactants, and oils
- 6. Foliar fertilizers

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be re-suspended before spraying is resumed. A sparger agitator is particularly useful for this purpose.

Premixing: Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20 to 35 mesh screen. This procedure assures good initial dispersion of these formulation types.

Spray Tank pH: A spray tank pH between 5.0 and 9.0 is suggested to achieve maximum performance of Radiant SC. If the water source is outside of this pH range, or tank mixing other pesticides, adjuvants, or foliar nutrients will cause the pH to fall outside this range, consider adjusting the spray tank pH to be between 5.0 and 9.0 before adding Radiant SC. To do this, add all other tank mix components first, then check the spray tank pH and adjust if desired, and then add Radiant SC. If you require additional information on how to adjust spray tank pH, contact your Corteva Agriscience representative.

Use of Adjuvants: Adjuvants may be used to improve control of dipterous and lepidopterous leafminers, and thrips in situations where achieving uniform plant coverage is difficult such as a closed crop canopy, or dense foliage), or penetration into waxy leaf surfaces is required.

- Use only adjuvant products labeled for agricultural use and follow the manufacturer's label directions. A nominal concentration of 1 to 2 quarts per 100 gallons (0.25 to 0.5% v/v) is generally sufficient.
- For dipterous leafminers and thrips, emulsified crop oils or methylated crop oil plus organosilicone combination products are recommended.
- For lepidopterous leafminers, thrips, and psyllids, citrus oils or horticultural oils may improve control.
- When using adjuvants, always conduct a jar test to determine the compatibility of the various components in the spray mixture. Crop safety should be evaluated in a small area of the crop whenever there is a significant change in spray mixture ingredients or source of water for the spray mixture.
- Do not use diesel fuel or pure mineral oil.
- When an adjuvant is to be used with this product, Corteva Agriscience recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Application Directions

Except for crops listed under the greenhouse section, do not apply Radiant SC in greenhouses or other enclosed structures used for growing crops.

Proper application techniques help ensure thorough spray coverage and correct dosage for optimum insect control. The following directions are provided for ground and aerial application of Radiant SC. Attention should be given to sprayer speed and calibration, wind speed, and foliar canopy density to ensure adequate spray coverage.

MANDATORY SPRAY DRIFT

Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size - Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift.
 Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WIND

Drift potential generally increased with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Tree and Vine Crop Application

Dilute Spray Application: This application method is based upon the premise that all plant parts are thoroughly wetted, to the point of runoff, with spray solution. To determine the number of gallons of dilute spray required per acre, contact your state agricultural experiment station, certified pest control advisor, or extension specialist for assistance. Use of tree row volume is appropriate.

Apply Radiant SC in a manner that achieves uniform coverage of the entire crop canopy but not past the point of runoff. For optimum control of target pests, complete and uniform spray coverage is essential. The spray volume required to achieve complete and uniform coverage will depend upon tree size and shape, leaf size, and density, and the application equipment used. To determine the required spray volume per acre, contact your state agricultural experiment station, certified pest control advisor, or extension specialist for assistance. Use of tree row volume is appropriate.

Additional Requirements for Aerial Applications: Mount the spray boom on the aircraft to minimize drift caused by wingtip or rotor vortices. Use the minimum practical boom length and do not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with the pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Chemigation Application

Radiant SC may be applied through properly equipped chemigation systems for insect control in corn, cranberry and potatoes. Follow use directions for these crops in the Uses section of this label. Do not apply Radiant SC by chemigation to other labeled crops except as specified in Corteva Agriscience supplemental labeling or product bulletins.

Directions for Sprinkler Chemigation: Apply this product only through sprinkler irrigation systems including: center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move. Do not apply this product through any other type of irrigation system. Sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units are not recommended.

For continuously moving systems, the mixture containing Radiant SC must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. If continuously moving irrigation equipment is used, apply in no more than 0.25 inch of water. For irrigation systems that do not move during operation, apply in no more than 0.25 inch of irrigation immediately before the end of the irrigation cycle.

Chemigation Equipment Preparation: The following use directions are to be followed when this product is applied through irrigation systems. Thoroughly clean the chemigation system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injection system with soap or a cleaning agent and water. Determine the amount of Radiant SC needed to cover the desired acreage. Mix according to instructions in the Mixing Directions section above using a dilution concentrate matching your injector system requirements. Continually agitate the mixture during mixing and application.

Chemigation Equipment Calibration: In order to calibrate the irrigation system and injector to apply the mixture containing Radiant SC, determine the following: 1) Calculate the number of acres irrigated by the system; 2) Calculate the amount of product required and premix. 3) Determine the irrigation rate and determine the number of minutes for the system to cover the intended treatment area; 4) Calculate the total gallons of insecticide mixture needed to cover the desired acreage. Divide the total gallons of insecticide mixture needed by the number of minutes (minus time to flush out) to cover the treatment area. This value equals the gallons per minute output that the injector or eductor must deliver. Convert the gallons per minute to milliliters or ounces per minute if needed. 5) Calibrate the injector pump with the system in operation at the desired irrigation rate. It is suggested that the injector pump/system be calibrated at least twice before operation, and the system should be monitored during operation.

Chemigation Equipment Requirements:

- The system must contain an air gap, an approved backflow prevention device, a functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information or state specific regulations.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional normally closed, solenoid-operated valve
 located on the intake side of the injection pump and connected to the system interlock to prevent fluid
 from being withdrawn from the supply tank when the irrigation system is either automatically or
 manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- To insure uniform mixing of the insecticide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing. The injection point must be located after all back-flow prevention devices on the water line.
- The tank holding the insecticide mixture should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injector point.

Chemigation Operation: Start the water pump and irrigation system, and let the system achieve the desired pressure and speed before starting the injector. Check for leaks and uniformity and make repairs

before any chemigation takes place. Start the injection system and calibrate according to manufacturer's specifications. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

Chemigation Precautions:

- 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, contact state extension service specialists, equipment manufacturers or other experts.
- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system and make necessary adjustments should the need arise and continuously monitor the injection.

Chemigation Restrictions:

- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system shoud be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not connect an irrigation system used for pesticide application (including greenhouse systems) to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place with current certification. Specific local regulations may apply and must be followed.
- Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application, if they irrigate nontarget areas.
- Do not allow irrigation water to collect or runoff and pose a hazard to livestock, wells, or adjoining crops.
- Do not enter treated area during the reentry interval specified in the Agricultural Use Requirements section of this label unless required PPE is worn.
- Do not apply through sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units.

Rotational Crop Restrictions

Only a crop approved for spinetoram use (Delegate WG or Radiant SC) may be immediately rotated to a treated field. All other crops may be rotated 30 days following last application.

Uses

Banana and Plantain

Pests and Application Rates:

	Radiant SC	
Pests	(fl oz/acre)	(fl oz/100 gal)
banana rust thrips1	8 – 11	2.67 - 3.67
Hawaiian flower thrips¹		
lepidopterous larvae, including		
banana moth		

¹Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Apply no later than two weeks after bunch emergence and before flower petals senesce and again one to two days before bunch cover.

Application Rate: Apply Radiant SC as a directed fine spray toward bunches and spray to runoff.

Spray Volume: Dilute sprays are sprayed to the point of runoff. The application rate range for dilute sprays in the table is based upon a spray volume of 300 gallons per acre. Gallonage of dilute sprays will vary depending upon tree size, density of canopy, stage of seasonal growth, and spacing in the orchard.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not make more than three applications of Group 5 insecticides for thrips in a season.

Restrictions:

- Preharvest Interval: Do not apply within 56 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per crop or apply more than six applications times per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Berry, Low Growing Berry (Subgroup 13-07G)¹ except cranberry and lowbush berry

¹Bearberry; bilberry; cloudberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.

Pests	Radiant SC (fl oz/acre)
armyworms ¹	6 – 10
leafrollers	
light brown apple moth	
spotted wing drosophila	
thrips ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

²Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. For thrips, a 3- to 4-day re-treatment schedule may be necessary if there is heavy pest pressure or if the pest population is increasing rapidly. For control of all other pests, a 5- to 7-day re-treatment schedule may be necessary if the crop is growing rapidly or if there is heavy pest pressure. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply as a foliar spray at the rate specified to control target pests. Use a higher rate in the range for larger larvae or moderate to severe pest infestations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For thrips, if additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least two applications. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 30 fl oz of Radiant SC (0.2343 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than three applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- **Minimum Treatment Interval**: Do not make applications less than 3 days apart for thrips, nor less than 4 days apart for all other listed pests.

Berry, Low Growing, except strawberry (Subgroup 13-07H)¹ Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries;

partridgeberry; cultivars, varieties, and/or hybrids of these.

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms currant fruit fly (suppression)	6 – 12
fireworms	
gypsy moth leafrollers	
loopers	
sparganothis fruitworm thrips (suppression)¹	

¹Suppression of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Application rate of Radiant SC within the rate range will depend upon plant size, volume of foliage present, and pest pressure. Use a higher rate in the rate range for larger larvae or moderate to severe infestations and/or larger plant volume.

Chemigation: Radiant SC may be applied to cranberry by chemigation at labeled rates. Refer to the Chemigation Application section.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agrisciencerepresentative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 21 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Bulb Vegetables (Subgroups 3-07A & 3-07B)¹

¹Chive, fresh leaves; chive, Chinese, fresh leaves; daylily, bulb; elegans hosta; fritillaria, bulb; fritillaria, leaves; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; kurrat; lady's leek; leek; leek, wild; lily, bulb; onion, bulb; onion, Chinese, bulb; onion, Beltsville bunching; onion, fresh; onion, green; onion, macrostem; onion, pearl; onion, potato, bulb; onion, tree, tops; onion, Welsh, tops; shallot, bulb; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ^{1,2} European corn borer ² loopers ²	5 – 10
dipterous leafminers ² flea beetles (suppression) thrips ²	6 – 10

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

²Control of lepidopterous larvae, leafminers, and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants under Mixing Directions. Control of thrips requires thorough coverage of the crop. Coverage can be increased by using higher spray pressure and dual directed nozzles.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for larger larvae or heavier infestations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For thrips, if additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least two applications. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 30 fl oz of Radiant SC (0.234 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than five applications per calendar year. See

Resistance Management regarding number of applications for specific pests.

• Minimum Treatment Interval: Do not make applications less than 4 days apart.

Bushberries (Subgroup 13-07B)¹ except lingonberry

¹Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; currant, black; currant, red; elderberry; European, barberry; gooseberry; cranberry, highbush; honeysuckle, edible; huckleberry; jostaberry; Juneberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms	6 – 12
blueberry gall midge (suppression)	
blueberry maggot (suppression)	
cherry fruitworm	
cranberry fruitworm	
currant fruit fly (suppression)	
European grapevine moth	
fireworms	
gypsy moth	
leafrollers	
light brown apple moth	
loopers	
spotted wing drosophila	
thrips (suppression) ^{1,2}	

¹Suppression of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon plant size, volume of foliage present and pest pressure. Use a lower rate in the rate range for light infestations and/or small plants and a higher rate in the rate range for heavy infestations and/or larger plants.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Only two applications are allowed per acre per year in Fresno, Kern, and Tulare counties in the state of California (See special crop restrictions). Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- **Preharvest Interval:** Do not apply within 3 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management and Special Use Restrictions regarding number of applications for specific pests and locations.
- Minimum Treatment Interval: Do not make applications less than 6 days apart.

Special Use Restrictions for Preharvest Interval of one day:

²See special restrictions below for Fresno, Kern, and Tulare counties in California.

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 35.9 oz of Radiant SC (0.281 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year. See Resistance Management regarding number of applications for specific pests. See Resistance Management and Special Use Restrictions regarding number of applications for specific pests and locations.
- Minimum Treatment Interval: Do not make application less than 6 days apart between the first and second applications. Do not make applications less than 12 days apart between the second applications and the third application. The third application is applied at 1 day of harvest.

Special Use Restrictions for Fresno, Kern, and Tulare Counties in California

- Thrips (suppression) rate: The Radiant SC use rate is 10 12 fl oz/acre. Do not apply less than 10 fl oz/acre.
- Preharvest Interval: Do not apply within 3 days of harvest.
- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than two applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 6 days apart.

Caneberries (Subgroup 13-07A)¹

¹Blackberry; loganberry; raspberry, red and black; wild raspberry; cultivars, varieties, and/or hybrids of these.

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms¹	6 – 12
European grapevine moth	
green fruitworm	
leafrollers	
light brown apple moth	
looper	
raspberry fruitworm	
sawfly	
spotted wing drosophila	
thrips (suppression) ²	
western raspberry fruitworm	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon plant size, volume of foliage present and pest pressure. Use a higher rate in the rate range for larger larvae or moderate to severe infestations and/or larger plant volume.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

²Suppression of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Cereal Grains¹ (Except Rice, Millet and Sorghum) and Grain Amaranth

¹Cereal grains including barley, buckwheat, milo, oats, rye, triticale, wheat

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
cereal leaf beetle	2 – 6
armyworms ¹ corn earworm (headworm) grasshoppers (suppression) southwestern corn borer webworms	3 – 6

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Scout for **armyworms** with enough regularity to monitor egg laying and egg hatch and treat when thresholds are reached. Time applications of Radiant SC to coincide with peak egg hatch and/or small larval stage of each generation.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified for the target pest. Use a higher rate in the rate range for heavy infestations, advanced growth stages of target pests, or difficult spray coverage situations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- **Preharvest Interval**: Do not apply within 21 days of grain or straw harvest or within 3 days of forage, fodder, or hay harvest.
- Do not apply more than a total of 18 fl oz of Radiant SC (0.141 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Coffee

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
lepidopterous larvae,	4 - 6
such as: armyworms,	
banana moth,	
cutworms, loopers	
coffee leafminer ¹	6 - 10

¹Control may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your

Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon plant size, volume of foliage present and pest pressure. Use a higher rate in the rate range for larger larvae or moderate to severe infestations and/or larger plant volume.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than six applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 5 days apart.

Corn (Field, Sweet, Popcorn, Seed Corn) and Teosinte

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	3 – 6
corn earworm, <i>Helicoverpa</i>	
zea	
European corn borer	
southwestern corn borer	
western bean cutworm	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Scout for corn borers and armyworms with enough regularity to monitor egg laying and egg hatch. Time applications of Radiant SC to coincide with peak egg hatch of each generation. For corn earworm control and armyworms, a 2-day re-treatment schedule may be necessary at silking. For control of all other pests, a 5- to 7-day re-treatment schedule may be necessary if the crop is growing rapidly or if there is heavy pest pressure.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Spray Delivery: For control of **first generation European corn borer** and **armyworms**, apply broadcast or as a directed spray into the leaf whorls. For control of **corn earworm**, apply broadcast or direct spray to ear zone. Use sufficient spray volume and nozzle pressure to ensure thorough wetting of the silks.

Chemigation: Radiant SC may be applied to corn by chemigation at labeled rates. Refer to the Chemigation Application section.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

Sweet Corn

- Preharvest Interval: Do not apply within 1 day of ear harvest or 3 days of forage or fodder harvest.
- Do not apply more than a total of 36 fl oz of Radiant SC (0.281 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than six applications per calendar year.
- **Minimum Treatment Interval:** For corn earworm at silking, do not make applications less than 2 days apart. For all other pests and timings, do not make applications less than 4 days apart.

Popcorn and Seed Corn

- Preharvest Interval:
 - **Seed Corn:** Do not apply within 1 day of grain harvest or 3 days of forage or fodder harvest. **Popcorn:** Do not apply within 28 days of grain harvest or 3 days of forage or fodder harvest.
- Do not apply more than a total of 36 fl oz of Radiant SC (0.281 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than six applications per calendar year.
- **Minimum Treatment Interval:** For corn earworm at silking, do not make applications less than 2 days apart. For all other pests and timings, do not make applications less than 4 days apart.

Field Corn and Teosinte

- Preharvest Interval: Do not apply within 28 days of grain harvest or within 3 days of fodder or forage harvest.
- Do not apply more than a total of 16 fl oz of Radiant SC (0.125 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- **Minimum Treatment Interval:** For corn earworm at silking, do not make applications less than 2 days apart. For all other pests and timings, do not make applications less than 4 days apart.

Cottonseed (Subgroup 20-C)¹

¹Cultivars, varieties, and/or hybrids of these.

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
thrips (early season) ²	1.4 - 8
cotton bollworm (pre-bloom) cotton leafperforator European corn borer tobacco budworm	2.8 – 8
armyworm ¹ cotton bollworm (post-bloom) dipterous leafminers ² loopers saltmarsh caterpillar thrips (mid to late season) ²	4.25 – 8

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: For **cotton bollworm**, use a lower rate in the rate range at pre-bloom timings and a higher rate in the rate range at post-bloom timings. For **tobacco budworm** and/or **cotton bollworm**, scout fields twice per week and apply Radiant SC when the majority of the population is within blackhead egg stage to 1/8-inch larval length. The following table illustrates the size of development of worms in relation to age and stage of development (instar) as a guide to timing treatments for optimum control:

Age (Days)	Average Size (Inch)	Instar
Hatch	1/16	1st
3	1/4	2nd

²Control of lepidopterous larvae, leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

5	1/2	3rd
8	7/8	4th
10	1	5th

Note: A scouting schedule of only once per week is risky since hatching worms will have grown to 3rd instar before the next scouting observation has determined the need to spray.

Beet Armyworm: Economic thresholds vary with local conditions and sampling methods. The following is an example of one such method: apply Radiant SC when field scouting reveals three occurrences or more of egg hatch or larval feeding per 100 feet of row.

Loopers: Economic thresholds vary with local conditions and sampling methods. The following is an example of one such method: apply Radiant SC when field scouting reveals 4 larvae per 1 foot of row or 25% defoliation.

Application Rate: Use a higher rate of Radiant SC in the rate range and higher spray volume when one or more of the following is true: tobacco budworms or bollworms are more than 1/4 inch in length; target pest population is 2X above state threshold level; or foliage canopy is tall/dense and worms are present in the lower part of the canopy. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 28 days of harvest.
- Do not apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Cucurbit Vegetables (Crop Group 9)1

¹Cucumber, edible gourds, muskmelons (hybrids and/or cultivars of *Cucumis melo*), pumpkin, summer squash, watermelon, winter squash

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ¹ cabbage looper melonworm pickleworm rindworms	5 – 10
dipterous leafminers ² thrips ²	6 – 10

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

²Control of lepidopterous larvae, leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area

Restrictions:

- **Preharvest Interval:** Do not apply within 3 days of harvest for all cucurbit crops except cucumbers. Do not apply within 1 day of harvest for cucumbers.
- Do not apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Dates

Pests and Application Rates:

Pest	Radiant SC (fl oz/acre)
carob moth	14

Application Timing: Apply Radiant SC when pests appear or in accordance with local conditions. Applications should closely follow regional spray recommendations. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per acre per calendar year.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Fig

Pest and Application Rates:

Pest	Radiant SC (fl oz/acre)
navel orangeworm	12 – 14

Application Timing: Apply Radiant SC as a foliar spray when pests appear or in accordance with local conditions. Applications should closely follow regional spray recommendations. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size, volume of foliage present, and pest pressure. Use a higher rate in the rate range for larger trees or heavy infestations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Although navel orangeworm has not had major resistance problems, avoid applying Radiant SC against more than 2 generations per year.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Fruit, Citrus (Crop Group 10-10)¹

¹Australian 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; Pummelo; Russell River lime; Satsuma mandarin; Sweet lime; Tachibana orange; Tahiti lime; Tangelo; Tangerine (Mandarin); Tangor; Trifoliate orange; Uniq fruit; Cultivars; varieties and/or hybrids of these

Pests and Application Rates:

B	
Pests	Radiant SC (fl oz/acre)
Asian citrus psyllid ¹	6 – 12
citrus leafminer ¹	
citrus orangedog	
katydids ²	
lepidopterous larvae, including:	
avocado leafroller	
citrus peelminer	
cutworms	
fruit tree leafroller	
light brown apple moth	
orange tortrix	
western tussock moth	
citrus thrips, Scirtothrips citri1	8 - 12

¹Control of leafminers, thrips, and psylla may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear or in accordance with local economic thresholds. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size and pest pressure. Use a lower rate in the rate range for light infestations and/or smaller trees and a higher rate in the rate range for heavy infestations and/or larger trees.

Low Volume Application (for Use in Florida Only): Radiant SC may be applied by ground application in a minimum finished spray carrier volume of 2 gallons per acre. An adjuvant may be used in the spray mixture at the specified rate of the manufacturer. Evaluate the effect of specific adjuvants or tank mix

²Katydids: Control of nymphs only; suppression of adults.

partners on the performance of Radiant SC in low volume applications in a small-scale application before making large-scale applications.

To achieve good control, uniform coverage and proper equipment calibration are required. Apply only with air-assisted equipment. Low volume applications may not provide the same level of efficacy that can be obtained with an airblast sprayer at higher application volumes.

Reduce the potential for drift when making low volume applications. Factors that may impact drift include wind speed and temperature inversion. Only apply this product if the wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph. See the Application Directions section for additional information on reducing spray drift.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For citrus thrips, rotate to another class of effective products for the next two applications after using two applications of Radiant SC within a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.
- Do not apply to citrus nurseries or citrus in greenhouses.

Fruit, Pome (Crop Group 11-10)¹

¹Apple; Azarole; Crabapple; Loquat; Mayhaw; Hook. & Arn.; Medlar; Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Tejocote; Cultivars, varieties and/or hybrids of these.

Pests	Radiant SC (fl oz/acre)
East of Rocky Mountains:	9 – 14
codling moth	
oriental fruit moth	
West of Rocky	12 – 14
Mountains:	
codling moth	
oriental fruit moth	
European corn borer	9 – 14
European grapevine moth	
gypsy moth	
laconobia fruitworm	
leafminers ¹ , including:	
spotted tentiform	
western tentiform	
leafrollers, including:	
oblique-banded	
pandemis	
lesser appleworm	
light brown apple moth	
spotted wing drosophila	
thrips ¹	
tufted apple budmoth	
apple maggot	12 – 14

(suppression)	
pear psylla ¹	
plum curculio	
(suppression)	

¹Control of thrips, leafminers, and pear psylla may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Closely follow regional spray recommendations for codling moth and oriental fruit moth treatments based on biofix dates, egg hatch, and/or pheromone trap catches. Codling moth and oriental fruit moth larvae must be controlled before they penetrate the fruit. Radiant SC is a larvicide; begin applications shortly before egg hatch. For codling moth, egg hatch typically begins at 220 to 250 degree days (base 50°F) after biofix. Pear psylla numbers can increase rapidly; begin applications before damaging numbers are reached. For codling moth, oriental fruit moth, and pear psylla, repeat applications may be needed to maintain control, but follow resistance management guidelines. Consult with your Corteva Agriscience representative, state agricultural experiment station, certified pest control advisor or extension specialist for specific application timings in your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size and pest pressure. Use a lower rate in the rate range for light infestations and/or smaller trees and higher rate in the rate range for heavy infestations and/or larger trees.

Resistance Management: Do not make more than three consecutive applications of Group 5 insecticides (spinetoram and spinosad) within a crop season. If additional treatments are required after three consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Pear psylla is known to develop resistance quickly, do not make more than two applications of Group 5 insecticides for pear psylla in a season. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Avoid treating consecutive generations of codling moth, oriental fruit moth, leafrollers, and pear psylla with Group 5 insecticides.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than four applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Fruit, Small, Vine Climbing, except fuzzy kiwifruit (Subgroup 13-07F)¹

¹Amur river grape; gooseberry; grape; kiwifruit, hardy; Maypop; schisandra berry; cultivars varieties, and/or hybrids of these.

Pests	Radiant SC (fl oz/acre)
cutworm	6 – 10
European grapevine moth	
grape berry moth	
grape leaffolder	
light brown apple moth	
omnivorous leafroller	
orange tortrix	
redbanded leafroller	
spotted wing drosophila	
thrips ¹	
western grape leaf	
skeletonizer	

¹Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Carefully adjust equipment and spray volume to assure thorough uniform coverage. Use a higher rate of Radiant SC in the rate range for larger larvae or moderate to severe infestations and/or larger plant volume.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 3 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than five applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Fruit, Stone (Crop Group 12-12)¹

¹Apricot; 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; Plumcot; Plum, prune; Sloe; cultivars, varieties, and/or hybrids of these.

Books	Radiant SC
Pests	(fl oz/acre)
peach twig borer (dormant spray)	6 – 14
European grapevine moth	9 – 14
green fruitworm	
leafminers, including:	
spotted tentiform,	
western tentiform	
leafrollers, including:	
fruit tree	
oblique-banded	
pandemis	
red-banded	
variegated	
light brown apple moth	
peach twig borer (in-season spray)	
spotted wing drosophila	
thrips ¹	
tufted apple bud moth	
western cherry fruit fly, <i>Rhagoletis</i>	
indifferens	
cherry fruit fly, Rhagoletis cingulata	12 – 14
(suppression)	
oriental fruit moth	

plum curculio ((suppression)	

Application Timing: Closely follow regional spray recommendations for oriental fruit moth applications based upon biofix dates, egg hatch, and/or pheromone trap catches. Oriental fruit moth larvae must be controlled before they penetrate the fruit. Radiant SC is a larvicide; begin applications shortly before egg hatch. For oriental fruit moth and thrips, repeat applications may be needed to maintain control; but follow resistance management guidelines. Peach twig borer applications can be made as dormant, delayed dormant, or May sprays. For cherry fruit fly and western cherry fruit fly, maintain protective sprays at 7-day intervals while adults are present and fruit is susceptible to attack. For all pests, consult with your Corteva Agriscience representative, state agricultural experiment station, certified pest control advisor or extension specialist for specific application timings in your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size and pest pressure. Use a lower rate in the rate range for light infestations or smaller trees and a higher rate in the rate range for heavy infestations or larger trees.

Resistance Management: Do not make more than three consecutive applications of Group 5 insecticides (spinetoram and spinosad) within a crop season. If additional treatments are required after three consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not treat consecutive generations of oriental fruit moth and leafrollers with Group 5 insecticides. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 14 days of harvest for apricots, within 7 days of harvest for cherries and other stone fruit crops, or within 1 day of harvest for peaches, nectarines, plums and prunes.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications**: Do not make more than four applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- **Minimum Treatment Interval**: Do not make applications less than 3 days apart for thrips, nor less than 7 days apart for all other listed pests.

Greenhouse Production of Cucumber, Lettuce (head and leaf), Pepper, and Tomato (not for use in the production of field transplants for any of the listed crops)

Pests and Application Rates for Greenhouse Cucumber:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
cabbage looper	
melonworm	
pickleworm	
rindworms	
thrips ²	6 – 10
dipterous leafminers ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

• Greenhouse minimum ground spray volume: 15 GPA

¹Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

²Control of lepidopterous larvae, leafminers, and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Pests and Application Rates for Greenhouse Pepper and Tomato:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
European corn borer	
hornworms	
light brown apple moth	
loopers	
tomato fruitworm, <i>Helicoverpa zea</i>	
tomato pinworm	
dipterous leafminers ²	6 – 10
thrips ²	
psyllids ²	
pepper weevil (suppression)	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Greenhouse minimum ground spray volume: 15 GPA

Pests and Application Rates for Greenhouse Lettuce (head and leaf):

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
cabbage looper	
corn earworm, <i>Helicoverpa zea</i>	
diamondback moth	
imported cabbageworm	
light brown apple moth	
dipterous leafminers ²	6 – 10
thrips ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

• Greenhouse minimum ground spray volume: 15 GPA.

Application Timing: To determine when to treat, scout with enough regularity to monitor the population size of each of the labeled pests and use economic thresholds when possible. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not apply in the production of transplants intended for field use.

²Control of leafminers, thrips, and psyllids may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Restrictions:

- Except for crops listed under the greenhouse section, do not apply Delegate WG in greenhouses or other enclosed structures use for growing crops.
- Preharvest Interval: DO NOT apply within 1 day of harvest.
- DO NOT apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year
- **Maximum Number of Applications:** Do not make more than four applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: DO NOT make applications less than 6 days apart.

Herbs (Subgroup 19A)¹

¹Angelica, balm, basil, borage, burnet, chamomile, catnip, chervil (dried), chive, chive (Chinese), clary, coriander (leaf), costmary, culantro (leaf), curry (leaf), dillweed, horehound, hyssop, lavender, lemongrass, lovage (leaf), marigold, marjoram, nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage, savory (summer and winter), sweet bay, tansy, tarragon, thyme, wintergreen, woodruff, wormwood

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ¹ light brown apple moth	5 – 8
loopers thrips ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for larger larvae or high infestations and/or larger plant volume. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than five applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

²Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Hops, Dried Cones

Pests	Radiant SC (fl oz/acre)
lepidopterous larvae including:	5 – 8
armyworms	
cutworms	
leafrollers	
loopers	
thrips (suppression)	

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for larger larvae or high infestations and/or larger plant volume. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than three applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Leafy Greens (Subgroup 4-16A)¹, Leaf Petiole Vegetable (Subgroup 22B)², Celtuce and Fennel, Florence, Fresh Leaves and Stalk, Leaves of Root and Tuber Vegetables (Crop Group 2)³ and Leaves of Legume Vegetables (Crop Group 7A)⁴, Turnip Greens, and Watercress

¹Amaranth, Chinese; amaranth, leafy; aster, Indian; blackjack; cat's whiskers; cham-chwi; cham-na-mul; chervil, fresh leaves; chipilin; chrysanthemum, garland; cilantro, fresh leaves; corn salad; cosmos; dandelion, leaves; dang-gwi, leaves; dillweed; dock; dol-nam-mul; ebolo; endive; escarole; fameflower; feather cockscomb; good king henry; huauzontle; jute, leaves; lettuce, bitter; lettuce, head; lettuce, leaf; orach; parsley, fresh leaves; plantain, buckhorn; primrose, English; purslane, garden; purslane, winter; radicchio; spinach; spinach, Malabar; spinach, New Zealand; spinach, tanier; Swiss chard; violet, Chinese, leaves; cultivars, varieties, and hybrids of these commodities.

²Cardoon; celery; celery, Chinese; fuki; rhubarb; udo; zuiki; cultivars, varieties, and hybrids of these commodities.

⁴ Any cultivar of bean and field pea (except soybean)

³ Bitter cassava, black salsify, carrot, celeriac (celery root), chicory, dasheen (taro), edible burdock, garden beet, oriental radish (daikon), parsnip, radish, rutabaga, sugar beet, sweet cassava, sweet potato, tanier, true yam, turnip, turnip-rooted chervil

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ¹ cabbage looper corn earworm, <i>Helicoverpa zea</i> diamondback moth imported cabbageworm	5 – 10
light brown apple moth	
dipterous leafminers, <i>Liriomyza</i> spp ² thrips ²	6 – 10

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Scout at least weekly and consider the impact of both pests and beneficials. Treat when economic thresholds are exceeded, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval:
 - **Leafy vegetables (including watercress):** Do not apply within 1 day of harvest. **Leaves of root, tuber and legume vegetables:** Do not apply within 3 days of harvest. **Note:** Root, tuber and legume vegetables treated as described may only be harvested for the foliage, not for the root, tuber, bean or pea.
- Do not apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications**: Do not make more than six applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval:
 Leafy vegetables (including watercress): Do not make applications less than 4 days apart.
 Leaves of root, tuber and legume vegetables: Do not make applications less than 7 days apart.
- Do not apply to seedling leafy crops grown for transplant within a greenhouse, shade house, or outdoor transplant bed.

Legume Vegetables (Succulent and Dried Beans and Peas) (Crop Group 6)¹

¹Adzuki bean, blackeyed pea, chickpea, cowpea, crowder pea, edible-pod pea, English pea, fava bean, field bean, field pea, garbanzo bean, garden pea, green pea, kidney bean, lentil, lima bean, lupins, mungbean, navy bean, pigeon pea, pinto bean, runner bean, snap bean, snow pea, sugar snap pea, tepary bean, wax bean, yardlong bean

Pests	Radiant SC (fl oz/acre)
European corn borer (eggs & larvae)	3 – 8

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

armyworms ¹	4 – 8
corn earworm, <i>Helicoverpa zea</i>	
light brown apple moth	
loopers	
dipterous leafminers, <i>Liriomyza</i> spp ²	5 – 8
thrips ²	

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Heavy infestations may require repeat applications, but follow resistance management guidelines. Treat when pests appear, targeting eggs at hatch or small larvae. For **European corn borer**, treat when moth flights first appear and use the lower end of the rate range to control eggs and larvae every three days before they enter the plant. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- **Maximum Number of Applications:** Do not make more than six applications per year. See Resistance Management regarding number of applications for specific pests.
- **Minimum Treatment Interval**: For European corn borer, do not make applications less than 3 days apart. For all other pests, do not make applications less than 4 days apart.

Succulent Beans and Peas:

- Preharvest Interval: Do not apply within 3 days of harvest.
- Do not apply more than a total of 28 fl oz of Radiant SC (0.219 lb ai spinetoram) per acre per year.

Dried Beans and Peas:

- **Preharvest Interval:** Do not apply within 28 days of harvest.
- Do not apply more than a total of 12 fl oz of Radiant SC (0.094 lb ai spinetoram) per acre per year.

Nut, Tree (Crop Group 14-12)¹

¹African nut-tree; Almond; Beechnut; Brazil nut; Brazilian pine; Bunya; Bur oak; Butternut; Cajou nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito nut; Dika nut; Ginkgo; Guiana chestnut; Hazelnut (Filbert); Heartnut; Hickory nut; Japanese horse-chestnut; Macadamia nut; Mongongo nut; Monkey-pot; Monkey puzzle nut; Okari nut; Pachira nut; Peach palm nut; Pecan; Pequi; Pili nut; Pine nut; Pistachio; Sapucaia nut, Tropical almond; Walnut, black; Walnut, English; Yellowhorn; Cultivars, varieties, and/or hybrids of these

Pests	Radiant SC (fl oz/acre)
peach twig borer (dormant spray)	3 – 14
light brown apple moth	6 – 14
oblique-banded leafroller	
peach twig borer (in-season spray)	

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

red-humped caterpillar walnut caterpillar walnut husk fly	
codling moth	9 – 14
fall webworm	
filbertworm	
hickory shuckworm	
pecan nut casebearer	
navel orangeworm	12 – 14

Application Timing: Apply Radiant SC as either a dormant or as a foliar spray when pests first appear or in accordance with local conditions. Closely follow regional spray recommendations based upon biofix dates, egg hatch, and/or pheromone trap catches. Lepidopterous larvae must be controlled before they penetrate the nuts or shoots. Radiant SC is a larvicide; begin applications shortly before egg hatch. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Use of Crop Oils: Crop oils labeled for agricultural use may be added to the dormant spray solution for suppression of overwintering mites and scale insects. Consult specific oil labels and University or Extension recommendations for precautions and restrictions regarding the use of oils in nut and fruit trees.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size, volume of foliage present and pest pressure. Use a higher rate in the rate range for larger trees or heavy infestations.

Resistance Management: Do not make more than three consecutive applications of Group 5 insecticides (spinetoram and spinosad) within a crop season. If additional treatments are required after three consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per calendar year.
- Minimum Treatment Interval: Do not apply treatments less than 7 days apart.

Peanut

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	3 – 8
cabbage looper	
corn earworm	
European corn borer	
green cloverleaf worm	
red-necked peanut worm	
saltmarsh caterpillar	
soybean looper	
velvetbean caterpillar	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Regularly monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative,

extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Use a higher rate of Radiant SC in the rate range for larger larvae or moderate to severe infestations and/or larger plant volume.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 3 days of nut, forage or hay harvest.
- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.
- Grazing Restriction: Do not allow grazing of peanut hay

Peppermint and Spearmint

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms	4 – 12
cutworms	
dipterous leafminers ¹	
light brown apple moth	
loopers	
thrips (suppression) ¹	

¹Control of leafminers and suppression of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions. If thorough coverage is desired, then high pressure (>70 psi) directed sprays with dual directed nozzles can assist leaf penetration.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Heavy infestations may require repeat applications, but follow resistance management guidelines. Use a higher rate in the rate range for larger larvae or heavier infestations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than four applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Pineapple

(For Use in Hawaii Only)

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
lepidopterous larvae (suppression)	4 - 8
such as:	
armyworms	
banana moth	
fruit borer caterpillar, <i>Thecia</i>	
basilides	
gummosos, <i>Batrachedra commosae</i>	
pineapple caterpillar	
pink cornworm	
sugarcane bud moth	

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply as a foliar spray at the rate specified to control target pests. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year
- Maximum Number of Applications: Do not make more than six applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Pomegranate

Pests and Application Rates:

Pests	Radiant SC (oz/acre)
European grapevine moth	8 - 14
filbertworm leafrollers	
thrips ¹ navel orangeworm	12 - 14

¹Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Application Timing: Treat when pests appear, or in accordance with local economic thresholds. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size and pest pressure. Use a lower rate in the rate range for light infestations and/or small trees and a higher rate in the rate range for heavy infestations and/or large trees.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not apply to pomegranate trees grown in greenhouses and nurseries.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 14 oz of Radiant SC (0.219 lb ai spinetoram) per acre per year
- Maximum Number of Applications; Do not make more than three applications per calendar year.
- **Minimum** Treatment Interval: Do not make applications less than 4 days apart for thrips, nor less than 7 days apart for all other listed pests.

Quinoa

Pests and Application Rates:

Insect Suppression Only

Pests	Radiant SC (fl oz/acre)
armyworms ¹	3 - 6
loopers	
leafminers ²	
thrips ²	6
cutworms	

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Scout weekly throughout the season to monitor and track populations of leafminers and thrips to determine when economic thresholds are exceeded. Scout weekly throughout the season to monitor and track pest and beneficial populations. For tracking lepidopterous larvae, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when economic thresholds are exceeded, targeting eggs at hatch or small larvae. Heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pest. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For thrips, if additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least two applications. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Make treatment decisions for the entire farm and consider area wide programs if other growers are in close proximity.

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants under Mixing Directions.

- Preharvest Interval: Do not apply within 21 days of harvest.
- Do not apply more than a total of 18 fl oz of Radiant SC (0.141 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Root and Tuber Vegetables (Crop Group 1)¹ and Globe Artichoke

¹Arracacha, arrowroot, bitter cassava, black salsify, carrot, celeriac, chayote root, chicory, Chinese artichoke, chufa, dasheen, edible burdock, edible canna, garden beet, ginger, ginseng, horseradish, Jerusalem artichoke, leren, oriental radish, parsnip, potato, radish, rutabaga, salsify, skirret, Spanish salsify, sugar beet, sweet cassava, sweet potato, tanier, true yam, tumeric, turnip, turnip-rooted chervil, turnip-rooted parsley, yam bean

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
Colorado potato beetle	4.5 – 8
armyworms ¹	6 – 8
artichoke plume moth	
dipterous leafminers, <i>Liriomyza</i> spp ²	
European corn borer	
flea beetles (suppression)	
light brown apple moth	
loopers	
potato psyllid (suppression) ²	
thrips ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Chemigation: Radiant SC may be applied to potatoes by chemigation at labeled rates. Refer to the Chemigation Application section.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not apply Group 5 insecticides to consecutive generations of Colorado potato beetle and do not make more than two applications of Group 5 insecticides per single generation of Colorado potato beetle. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

Garden beet and sugar beet:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than a total of 32 fl oz of Radiant SC (0.250 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per calendar year. See

²Control of leafminers, psyllids, and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Resistance Management regarding number of applications for specific pests.

• Minimum Treatment Interval: Do not make applications less than 7 days apart.

Black salsify, carrot, chicory, ginseng, horseradish, parsnip, salsify, skirret, Spanish salsify, turnip-rooted chervil, turnip-rooted parsley:

- Preharvest Interval: Do not apply within 3 days of harvest.
- Do not apply more than a total of 28 fl oz of Radiant SC (0.219 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than four applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Arracacha, arrowroot, bitter cassava, chayote root, Chinese artichoke, chufa, dasheen, edible canna, ginger, Jerusalem artichoke, leren, potato, sweet cassava, sweet potato, tanier, true yam, turmeric, yam bean:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not apply more than a total of 32 fl oz of Radiant SC (0.250 lb spinetoram) per acre per year.
- **Maximum Number of Applications**: Do not make more than four applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Globe Artichoke:

- Preharvest Interval: Do not apply within 2 days of harvest.
- Do not apply more than a total of 32 fl oz of Radiant SC (0.250 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than four applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 7 days apart.

Celeriac, edible burdock, oriental radish, radish, rutabaga, turnip and other root vegetables not specifically listed:

- **Preharvest Interval:** Do not apply within 3 days of harvest.
- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Soybean

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
armyworms¹	2 – 4
cabbage looper	
corn earworm (podworm)	
green cloverworm	
saltmarsh caterpillar	
soybean looper	
true armyworm	
velvetbean caterpillar	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Treat when field counts or crop injury indicates damaging pest populations are present or developing. Time applications to treat small larvae and use sufficient spray volume to ensure good coverage.

Application Rate: Use a higher rate in the rate range for heavy infestations and/or difficult spray coverage situations.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 28 days of harvest.
- Do not apply more than a total of 14 fl oz of Radiant SC (0.109 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per calendar year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.

Spices (Crop Group 26)¹

¹Ajowan, seed; alder buckhorn; allspice; ambrette, seed; amla, seed; angelica, dahurian, seed; angelica, seed; angostura, bark; anise pepper; anise, seed; anise, star; annatto, seed; asafoetida; ashwagandha, fruit; autumn crocus; balsam, Peruvian; barberry, bark; batavia-cassia, bark; batavia-cassia, fruit; belleric myrobalan; betel vine; birch, bark; bisnaga, seed; bitterwood; black bread weed; bloodroot; blue mallee; blushwood, seed; boldo, leaf; buchu; calamus root; candlebush; canella, bark; caper buds; caper spurge, seed; caraway, black; caraway, fruit; cardamom, black; cardamom, Ethiopian; cardamom, green; cardamom, Nepal; cardamom-amomum; cascara sagrada; cassia, bark; cassia, Chinese, bark; cassia, Chinese, fruit; cassia, fruit; cat's claw, bark; catechu, bark; celery, seed; chaste tree, berry; chaste tree, Chinese, roots; chervil, seed; Chinese hawthorn; Chinese nutmeg tree; Chinese wineberry, fruit; Chinese-pepper; cinnamon, bark; cinnamon, fruit; cinnamon, Saigon, bark; cinnamon, Saigon, fruit; clove buds; clusterleaf; comfrey; copaiba; coptis; coriander, fruit; coriander, seed; cotton, bark; crampbark; cubeb, seed; culantro, seed; culvers root; cumin; cumin, black; dill, seed; dorrigo pepper, berry; dorrigo pepper, leaf; dragon blood; echinacea, seed; epimedium; eucalyptus; eucommia, bark; european beech; felty germander; fennel flower, seed; fennel, common, fruit; fennel, common, seed; fennel, Florence, fruit; fennel, Florence, seed; fenugreek, seed; fingerroot; flame lily, seed; frankincense; frankincense, Indian; fringetree, bark; galbanum, resin; gambooge; grains of paradise; grains of selim; quaiac; guarana; guggul; gum arabic; gum ghatti; gum karaya; gum tragacanth; haw, black; honewort, seed; imperatoria; Indian tobacco, seed; iva; jalap; Jamaica dogwood, bark; juniper berry; kaffir lime, leaf; kewra; kokam; linden, leaf; lovage, seed; mace; magnolia, bark; mahaleb; malabar cardamom; malabar-tamarind; malabathrum; mastic; micromeria, white; milk thistle; mioga; miracle fruit; mistletoe; mojave yucca; muira puama; mustard, black; mustard, brown; mustard, seed; mustard, white; myrrh; myrrh, bisabol; myrtle, anise; myrtle, leaf; myrtle, lemon; nasturtium, bush, pods; nasturtium, garden, pods; nasturtium, pods; nettle, stinging, seed; nutmeg; osha; pepper, black; pepper, Indian long; pepper. Javanese long; pepper, leaf; pepper, pink; pepper, sichuan; pepper, white; pepperbush, berry; pepperbush, leaf; peppercorn, green; peppertree; peppertree, Peruvian; perilla, seed; phellodendron; pine, maritime; poppy, seed; prickly ash, Chinese; prickly ash, southern, bark; pygeum; qing hua jiao; quassia, bark; quebracho, bark; quillaja; quinine; rauwolfia, bark; resin spurge; rue; saffron crocus; sandalwood, seed; sassafras, bark; sassafras, leaf; saunders, red; saw palmetto; sesame, seed; silktree, bark; simaruba, bark; skunk cabbage, root; slippery elm; stemona, root; suma; sumac, fragrant; sumac, smooth, leaf; taheebo, bark; tamarind, seed; Tasmanian pepper, berry; Tasmanian pepper, leaf; threeleaf caper; tsaoko; vanilla; wattleseed; white willow; willow; witch hazel; yaw root; yellow gentian, roots; yohimbe; cultivars, varieties, and hybrids of these commodities

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
dipterous leafminers ¹	5 - 8
(suppression)	
lepidopterous larvae	
thrips (suppression) ¹	

Suppression of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants under Mixing Directions.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of each of the labeled pests. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests. Heavy infestations may require repeat applications, but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: Do not apply within 14 days of harvest.
- Do not apply more than a total of 39 fl oz of Radiant SC (0.305 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than five applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 10 days apart.

[Stalk and Stem Vegetable Crop Subgroup 22A¹] [including] Asparagus

¹Agave; aloe vera; asparagus; bamboo, shoots; celtuce; fennel, Florence, fresh leaves and stalk; fern, edible, fiddlehead; kale, sea; kohlrabi; palm hearts; prickly pear, pads; prickly pear, Texas, pads; cultivars, varieties, and hybrids of these commodities

Directions for [Stalk and Stem Vegetable Crop Subgroup 22A] [including] Asparagus Spears:

Pest and Application Rates:

Pest	Radiant SC (fl oz/acre)
Thrips	6 – 10
Asparagus beetle	4 - 8
Armyworms ¹	5 - 10
Loopers	
Corn earworm (<i>Helicoverpa zea</i>)	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

- Stalk and stem minimum ground spray volume: 15 Gallons Per Acre (referred to as GPA throughout this label).
- Stalk and stem minimum air spray volume: 3 GPA.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of the labeled pest. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of the pest. Heavy infestations may require repeat applications but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of

Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your local Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: DO NOT apply within 1 day of spear harvest.
- Do not apply more than a total of 40 fl oz of Radiant SC (0.3125 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) to asparagus ferns and spears per acre per year.

Directions for Post Harvest Protection of Asparagus Ferns:

Pest and Application Rates:

Pest	Radiant SC (fl oz/acre)
asparagus beetle	4 – 8
Armyworms ¹	5 – 8
Loopers	
Corn earworm (Helicoverpa zea)	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

- Asparagus ferns minimum ground spray volume: 20 GPA.
- Asparagus ferns minimum air spray volume: 5 GPA.

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of the labeled pest. Make applications **only to asparagus ferns**. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control in asparagus ferns. Use a higher rate in the rate range for heavy infestations or advanced growth stages of the pest. Heavy infestations may require repeat applications but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your local Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) to asparagus ferns and spears per acre per year

Tropical Tree Fruits¹

¹Acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple, feijoa, guava, ilama, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pitaya (dragon fruit), pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, ti leaves, wax jambu, white sapote

Pests and Application Rates:

Pests	Radiant SC (fl oz/acre)
katydids ¹	8 – 14
lepidopterous larvae, including:	
avocado leafroller	
citrus peelminer	
cutworms	
fruit tree leafroller	
light brown apple moth	
navel orangeworm	
orange tortrix	
western tussock moth	
thrips ²	

¹Katydids: Control of nymphs only, suppression of adults.

Application Timing: Treat when pests appear, or in accordance with local economic thresholds. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: The amount of Radiant SC applied per acre will depend upon tree size and pest pressure. Use a lower rate in the rate range for light infestations and/or small trees and a higher rate in the rate range for heavy infestations and/or large trees.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not apply to tropical tree fruits grown in greenhouses and nurseries.

Restrictions except for pitaya (dragon fruit):

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 28 fl oz of Radiant SC (0.219 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per calendar year.
- Minimum Treatment Interval: Do not apply treatments less than 4 days apart.

Restrictions for pitaya (dragon fruit):

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 48 fl oz of Radiant SC (0.3752 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per calendar year.
- Minimum Treatment Interval: Do not apply treatments less than 4 days apart.

Vegetable, *B*rassica, Head and Stem (Crop Group 5-16)¹, *Brassica*, Leafy Greens (Subgroup 4-16B)² and Kohlrabi

- ¹ Broccoli, Brussels sprouts, cabbage, cauliflower, Chinese cabbage (napa), cultivars, varieties, and hybrids of these commodities.
- ²Arugula; broccoli, Chinese; broccoli rabe; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; collards; cress, garden; cress, upland; hanover salad; kale; maca, leaves; mizuna; mustard greens; radish, leaves; rape greens; rocket, wild; shepherd's purse; turnip greens; watercress; cultivars, varieties, and hybrids of these commodities.

In the state of Georgia, do not apply Radiant SC to broccoli rabe, Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach and rape greens.

Pests and Application Rates:

²Control of thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

Pests	Radiant SC (fl oz/acre)
armyworms ¹ cabbage looper ²	5 – 10
diamondback moth ²	
imported cabbageworm ² light brown apple moth	
cabbage root maggot (suppression)	
dipterous leafminers, <i>Liriomyza</i> spp ²	6 – 10
thrips ²	
Hawaiian beet webworm	7 - 10

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing (except cabbage root maggot): Treat when pests appear, targeting eggs at hatch or small larvae. For all listed pests, heavy infestations may require repeat applications, but follow resistance management guidelines. Consult your Corteva Agriscience representative, extension service specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate (except cabbage root maggot): Apply Radiant SC as a foliar spray at the rate specified to control target pest. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management (except cabbage root maggot): Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For diamondback moth and thrips, if additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least two applications. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Make treatment decisions for the entire farm and consider area wide programs if other growers are in close proximity. Do not make more than six applications of Radiant SC per calendar year for diamondback moth over an entire farm (an area of abutting or nearby fields).

Specific Use Direction for cabbage root maggot:

For **cabbage root maggot suppression**, apply Radiant SC at 5 to 10 fl oz/acre. For 20-inch plant row spacing, i.e. two plant lines per 40 inch bed, apply Radiant SC at 0.19 to 0.38 fl oz per 1000 linear feet of plant row. For 30-inch plant row spacing, apply Radiant SC at 0.29 to 0.57 fl oz per 100 linear feet of plant row. Use proportional amounts for other row spacings, but do not exceed 10 fl oz per acre of Radiant SC per application. Application volume of at least 100 gallons of water per acre is recommended. Performance may be reduced at lower application volumes. Optimum application timing is based on field scouting. Begin applications when adult activity is observed in or near the field.

For direct seeded crops, an application should be made when the crop has developed to about the second true leaf stage and a second application should be made two to three weeks later. Direct the spray in a narrow band at the base of the plants and on the adjacent soil. The recommended width of the spray band is four inches.

For transplanted crops, an application should be made immediately after transplanting and a second application should be made two to three weeks later. Application to a narrow band of soil within 24 hours before transplanting is permitted, provided that the transplants are placed accurately within the band of treated soil and there is minimal disturbance of the treated soil during transplanting.

²Control of lepidopterous larvae, leafminers, and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

A third application may be needed under high cabbage root maggot pest pressure conditions, such as when there is a large amount of debris from a previous brassica crop or when adjacent brassica fields are being harvested. For optimum control, direct the spray in a narrow band at the base of the plants.

Do not make more than three applications of Group 5 insecticides (spinetoram and spinosad) per crop cycle for cabbage maggot suppression.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply to seedling cole crops grown for transplant within a greenhouse, shade house, or field plot.
- In the state of Georgia, do not apply Radiant SC to broccoli rabe, Chinese cabbage (bok choy), collards, kale, mizuna, mustard greens, mustard spinach and rape greens.

Vegetable, Fruiting (Crop Group 8-10)¹ and Okra

¹African eggplant; Bush tomato; Cocona; Currant tomato; Eggplant; Garden huckleberry; Goji berry; Groundcherry; Martynia; Naranjilla; Okra; Pea eggplant; Pepino; Pepper, bell; Pepper, nonbell; Roselle; Scarlet eggplant; Sunberry; Tomatillo; Tomato; Tree tomato; Cultivars, varieties and/or hybrids of these

Pests and Application Rates:

	T
	Radiant SC
Pests	(fl oz/acre)
armyworms ¹	5 – 10
Colorado potato beetle	
European corn borer	
hornworms	
light brown apple moth	
loopers	
tomato fruitworm, <i>Helicoverpa zea</i>	
tomato pinworm	
dipterous leafminers, <i>Liriomyza</i>	6 – 10
spp ²	
flower thrips ²	
pepper weevil (suppression)	
Thrips palmi ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Application Timing: Scout weekly throughout the season to monitor populations of **leafminers** and **thrips** to determine when economic thresholds are exceeded. Scout weekly throughout the season to monitor beneficial populations. For **lepidopterous larvae**, scout with enough regularity to monitor the population size of each of the labeled pests. Time applications of Radiant SC to coincide with peak egg hatch in species without overlapping generations.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. For **thrips**, if additional treatments are required after two consecutive applications of Group 5 insecticides,

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

rotate to another class of effective insecticides for at least two applications. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not apply Group 5 insecticides to consecutive generations of Colorado potato beetle and do not make more than two applications per single generation of Colorado potato beetle.

Restrictions:

- Preharvest Interval: Do not apply within 1 day of harvest.
- Do not apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per calendar year.
- **Maximum Number of Applications:** Do not make more than six applications per calendar year. See Resistance Management regarding number of applications for specific pests.
- Minimum Re-Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply to seedling fruiting vegetables and okra grown for transplant within a greenhouse, shade house, or outdoor transplant bed.

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Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent permitted by law, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, tort, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience's election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
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Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer	or this
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EPA accepted __/_/___

Supplemental Labeling



Corteva Agriscience LLC

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

Radiant® SC

EPA Reg. No. 62719-545

[Stalk and Stem Vegetable Subgroup Crop 22A] [including] Asparagus & Greenhouse Production of Cucumber, Lettuce (head and leaf), Pepper, and Tomato (not for use in the production of field transplants for any of the listed crops)

This label expires and must not be distributed or used in accordance with this supplemental registration after July 20, 2024.

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Radiant® SC insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Radiant SC according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Radiant SC.

Directions for Use

Directions for [Stalk and Stem Vegetable Subgroup 22A] [including] Asparagus Spears:

Pest and Application Rates:

Pest	Radiant SC (fl oz/acre)
Thrips	6 – 10
Asparagus beetle	2 - 4
Armyworms ¹	5 - 10
Loopers	
Corn earworm (<i>Helicoverpa zea</i>)	

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

Stalk and stem minimum ground spray volume: 15 GPA

• Stalk and stem minimum ground spray volume: 3 GPA

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of the labeled pest. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of the pest. Heavy infestations may require repeat applications but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your local Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Restrictions:

- Preharvest Interval: DO NOT apply within 1 day of spear harvest.
- Do not apply more than a total of 40 fl oz of Radiant SC (0.3125 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than four applications per year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) to asparagus ferns and spears per acre per year.

Directions for Post Harvest Protection of Asparagus Ferns:

Pest and Application Rates:

Pest	Radiant SC (fl oz/acre)
asparagus beetle	4 – 8
Armyworms ¹	5 – 8
Loopers	
Corn earworm (Helicoverpa zea)	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

- Asparagus ferns minimum ground spray volume: 20 GPA
- Asparagus ferns minimum ground spray volume: 5 GPA

Application Timing: For determining when to treat, scout with enough regularity to monitor the population size of the labeled pest. Make applications **only to asparagus ferns**. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control asparagus beetle in asparagus ferns. Use a higher rate in the rate range for heavy infestations or advanced growth stages of the beetle. Heavy infestations may require repeat applications but follow resistance management guidelines.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Consult your local Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

- Do not apply more than a total of 24 fl oz of Radiant SC (0.188 lb ai spinetoram) per acre per year.
- Maximum Number of Applications: Do not make more than three applications per year.
- Minimum Treatment Interval: Do not make applications less than 4 days apart.
- Do not apply more than a total of 56 fl oz of Radiant SC (0.438 lb ai spinetoram) to asparagus ferns and spears per acre per year.

Greenhouse Production of Cucumber, Lettuce (head and leaf), Pepper, and Tomato (not for use in the production of field transplants for any of the listed crops)

Pests and Application Rates for Greenhouse Cucumber:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
cabbage looper	
melonworm	
pickleworm	
rindworms	
thrips ²	6 – 10
dipterous leafminers ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

• Greenhouse minimum ground spray volume: 15 GPA

Pests and Application Rates for Greenhouse Pepper and Tomato:

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
European corn borer	
hornworms	
light brown apple moth	
loopers	
tomato fruitworm, <i>Helicoverpa zea</i>	
tomato pinworm	
dipterous leafminers ²	6 – 10
thrips ²	
psyllids ²	
pepper weevil (suppression)	

With the exception of yellowstriped armyworm and western yellowstriped armyworm.

• Greenhouse minimum ground spray volume: 15 GPA

Pests and Application Rates for Greenhouse Lettuce (head and leaf):

Pests	Radiant SC (fl oz/acre)
armyworms ¹	5 – 10
cabbage looper	
corn earworm, <i>Helicoverpa zea</i>	
diamondback moth	
imported cabbageworm	
light brown apple moth	
dipterous leafminers ²	6 – 10
thrips ²	

¹With the exception of yellowstriped armyworm and western yellowstriped armyworm.

²Control of lepidopterous larvae, leafminers, and thrips may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

²Control of leafminers, thrips, and psyllids may be improved with the addition of an adjuvant to the spray mixture. See Use of Adjuvants section under Mixing Directions.

²Control of leafminers and thrips may be improved with the addition of an adjuvant to the spray mixture.

See Use of Adjuvants section under Mixing Directions.

• Greenhouse minimum ground spray volume: 15 GPA

Application Timing: To determine when to treat, scout with enough regularity to monitor the population size of each of the labeled pests and use economic thresholds when possible. Treat when pests appear, targeting eggs at hatch or small larvae. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor or your state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Apply Radiant SC as a foliar spray at the rate specified to control target pests. Use a higher rate in the rate range for heavy infestations or advanced growth stages of target pests.

Resistance Management: Do not make more than two consecutive applications of Group 5 insecticides (spinetoram and spinosad). If additional treatments are required after two consecutive applications of Group 5 insecticides, rotate to another class of effective insecticides for at least one application. Do not make more than three applications of Group 5 insecticides for thrips in a season. Consult your Corteva Agriscience representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area. Do not apply in the production of transplants intended for field use.

- Except for crops listed under the greenhouse section, do not apply Entrust SC in greenhouses or other enclosed structures used for growing crops.
- Preharvest Interval: DO NOT apply within 1 day of harvest.
- DO NOT apply more than a total of 34 fl oz of Radiant SC (0.266 lb ai spinetoram) per acre per year
- **Maximum Number of Applications:** Do not make more than four applications per year. See Resistance Management regarding number of applications for specific pests.
- Minimum Treatment Interval: DO NOT make applications less than 6 days apart.

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