



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 18, 2019

Karina Castro
Federal Regulatory Manager
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd., Suite 100
Raleigh, North Carolina 27604

Subject: PRIA Label Amendment – Add New Uses: Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F and Peach, subgroup 12-12B
Product Name: Orius 20EW
EPA Registration Number: 66222-128
Application Date: 12/07/2017
Decision Number: 537551 and 537552

Dear Mrs. Castro:

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA Section 3(c)(7)(B), subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Tebuconazole GDCI-128991-1598

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

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

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

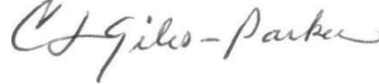
Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e).

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 11/18/2019
- Alternate CSF A dated 08/04/2009

If you have any questions, please contact Marcel Howard by phone at (703)305-6784, or via email at howard.marcel@epa.gov.

Sincerely,



Cynthia Giles-Parker, Chief
Fungicide Branch
Registration Division (7505P)

Enclosure -stamped "accepted" label

ACCEPTED
 11/18/2019
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 66222-128

TEBUCONAZOLE | GROUP 3 | FUNGICIDE

Orius® 20EW

Foliar Fungicide

ACTIVE INGREDIENT:	% BY WT.
Tebuconazole: alpha-[2-(4-chlorophenyl)ethyl]alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol.....	20.0%
OTHER INGREDIENTS:	80.0%
	TOTAL 100.0%

Contains 1.67 pounds tebuconazole per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
 (If you do not understand the label, find someone to explain it to you in detail).

Manufactured for:
 Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
 3120 Highwoods Blvd., Suite 100
 Raleigh, NC 27604

How can we help? 1-866-406-6262

EPA Reg. No. 66222-128

EPA Est. No. _____

NET CONTENTS: _____ GALLONS

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have a product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-250-9291 for emergency medical information.</p>	
<p>NOTE TO PHYSICIAN: There is no specific antidote. Treat symptomatically. Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic.</p>	

[Optional Text: For additional Precautionary Statements, handling, Directions for Use, (and Storage and Disposal), see inside of this booklet.]

In case of spills, fire, leaks or accidents call 1-800-535-5053.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: barrier laminate, or butyl rubber, or nitrile rubber, or neoprene rubber, or polyvinyl chloride, or Viton
- 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.

ENGINEERING CONTROLS STATEMENT

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to estuarine and marine invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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: barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or Viton
- Shoes plus socks

Spray Volume: Orius® 20EW may be applied in a minimum of 10 gallons of spray solution per acre by ground sprayer or in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied. If necessary, increase the spray volume per acre for complete crop coverage.

Note: Aerial application is prohibited in New York state.

Chemigation: Do not apply this product through any type of irrigation system.

Mixing: Add specified amount of Orius 20EW into the spray tank while filling with water to the desired level. Operate the agitator while mixing. If other materials are added to the spray tank, the Orius 20EW should be thoroughly dispersed prior to the addition of other materials.

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 the product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements for each product in the tank mixture.

Compatibility: To determine the compatibility of Orius 20EW with other products, the following procedure should be followed: Pour the specified proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least five (5) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. For further information, contact your local ADAMA representative.

RESISTANCE MANAGEMENT

For resistance management, Orius 20EW contains a Group 3 fungicide. Any fungal/bacterial population may contain individuals naturally resistant to Orius 20EW and other Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Orius 20EW is effective in controlling diseases and minimizing the development of resistance when used in rotation with other fungicides in an IPM program. Use high labeled rates for Orius 20EW under heavy disease pressure to minimize the risk for the development of fungicide resistance.

To reduce selection pressure for resistant pests:

- Use Orius 20EW in rotation with classes of fungicides with different modes of action.
- Use Orius 20EW as part of a disease management program that includes cultural and biological control where possible.
- Orius 20EW is in the Group 3 class of fungicides. The mode of action for tebuconazole, the active ingredient in this product, is as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis by blocking demethylation. Resistance can develop when products with the same mode of action are used repeatedly.
- Consult your State or local agricultural pest control advisor(s) for disease control strategies established for your area.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Orius 20EW or other Group 3 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact ADAMA at 1-866-406-6262. You can also contact your pesticide distributor or university extension specialist to report resistance.

CROP SPECIFIC DIRECTIONS FOR USE

Orius 20EW is a liquid foliar fungicide for use on the following crops:

APPLICATIONS		
CROP	DISEASE	RATE OF ORIUS 20EW
GRASSES GROWN FOR SEED	Rusts (<i>Puccinia</i> spp.)	8.6 to 17.2 fl oz per acre
	Apply the specified rate of Orius 20EW as soon as weather conditions are favorable for rust development or when first rust pustules are present. Repeat applications at 14 to 16 day intervals. Under heavy disease pressure use 12.9 to 17.2 fl oz/A and shorter spray intervals.	
	Powdery mildew	8.6 to 17.2 fl oz per acre
	Apply specified rate of Orius 20EW when powdery mildew first appears on the leaves. Repeat applications at 14 to 16 day intervals. Under heavy disease pressure use 12.9 to 17.2 fl oz/A and shorter spray intervals.	
APPLICATION INSTRUCTIONS: Apply the specified rate in a minimum of 20 gallons of water per acre with ground sprayers or in a minimum of 10 gallons of water per acre with aircraft. Thorough coverage is important for optimum disease control.		
RESTRICTIONS:		
<ul style="list-style-type: none"> • Apply a maximum of 34.4 fluid ounces (0.45 lb AI/A per season) of Orius 20EW per acre per crop season. • Orius 20EW may be applied up to 4 days before harvest. Regrowth may be grazed starting 17 days after last application. • For optimum benefit, the lowest recommended rate of a spray surfactant should be tank mixed with Orius 20EW. • Chaff, screenings and straw from treated areas may be used for feed purposes; however, do not forage, cut green crop, or use seed for feed purposes. 		

PEANUTS	SOILBORNE: Sclerotium stem and pod rot (white mold, southern blight, southern stem rot) Rhizoctonia limb rot Rhizoctonia pod rot (Virginia and North Carolina only) FOLIAR: Early leaf spot Late leaf spot Leaf rust Web blotch (<i>Phoma spp</i>) Pepper spot (<i>Leptosphaerulina spp</i>)	15.4 fl oz per acre
	<p>FOUR-APPLICATION SPRAY PROGRAM: Apply the specified rate in a preventive spray schedule. See table below for proper timing of applications. Applications of chlorothalonil should be made prior to and following applications of Orius 20EW to discourage development of resistant strains of fungi. For optimum control of foliar diseases such as leaf rust, web blotch, and pepper spot, the lowest label recommended rate of a spray surfactant should be tank-mixed with Orius 20EW.</p> <p>LEAF SPOT ADVISORY SCHEDULE: For control of soilborne diseases in an advisory schedule, apply Orius 20EW in the first advisory spray in July and continue Orius 20EW applications at 14 day intervals. Applications after August 15 should be tank mixed with chlorothalonil for resistance management purposes.</p>	
<p>APPLICATION INSTRUCTIONS: Orius 20EW is a sterol demethylation inhibitor (DMI) fungicide. Chlorothalonil may be tank mixed at the rate of 12 ounces of active ingredient with Orius 20EW as a leaf spot resistance management strategy. A spray surfactant is not necessary when Orius 20EW is tank mixed with chlorothalonil. Orius 20EW must be carried by rainfall or irrigation into the root and pod zone for control of root and pod rots caused by <i>Sclerotium rolfsii</i> and <i>Rhizoctonia solani</i>. Drought conditions will decrease the effectiveness of Orius 20EW against the root and pod rots. Use Orius 20EW in conjunction with cultural practices that are known to reduce the severity of soilborne diseases, such as proper crop rotation practices.</p> <p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • A maximum of 61.9 fluid ounces (0.81 lb AI/A per season) of Orius 20EW per acre per crop season. • Orius 20EW may be applied up to 14 days before harvest. • For optimum control of the specified soilborne diseases, four consecutive applications of Orius 20EW must be made at 14 day intervals. • Do not feed hay or threshings or allow livestock to graze in treated areas. • Mixing or alternating Orius 20EW with other DMI fungicides may lead to resistance. 		
Timing of Orius 20EW Application for Optimum Control of White Mold and Rhizoctonia Limb and Pod Rot		
Spray Program	Orius 20EW Application No.	Chlorothalonil Application No.
7 applications	3, 4, 5, and 6	1, 2, and 7
APPLICATIONS		
CROP	DISEASE	RATE OF ORIUS 20EW
CHERRY	Brown rot (blossom blight, fruit rot)	4.3 oz/100 gal ¹
PEACH, SUBGROUP 12-12B [*] (Peach)		8.6 to 17.2 oz/acre ²
NECTARINE		

CHERRY	Leaf spot Powdery mildew		
PEACH, SUBGROUP 12-12B [*] (Peach)	Rust	4.3 oz/100 gal	10.75 to 17.2 oz/acre
<p>Blossom blight: Begin application at white bud on cherry or pink bud on peach and nectarine. Apply again at 50% bloom and at petal fall if conditions continue to be favorable for disease development.</p> <p>Fruit rot: Begin applications two to three weeks before harvest and continue at 7 day intervals through the day of harvest. The blossom and fruit stages must be protected for optimum control of brown rot. If Orius 20EW is applied during only one of these stages, another registered fungicide should be applied to the other stage to provide optimum protection. Additional cover sprays during the early postbloom period are also important for preventing quiescent fruit infections in sweet cherry and peach.</p> <p>Leaf spot: Begin application at petal fall or when first leaves unfold and continue applications at 7 to 14 day intervals. Applications should be made at 7 day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.</p> <p>Powdery mildew: Follow leaf spot schedule until terminal growth ceases.</p> <p>Rust: Begin applications after canker emergence and continue applications at 14 day intervals under severe disease conditions.</p> <p>APPLICATION INSTRUCTIONS: Orius 20EW is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank-mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. For smaller trees, multiply 4.3 oz times the number of 100 gallons of spray solution required to thoroughly wet, to the point of runoff, one acre of the trees being treated. For concentrate sprays, apply the same amount of product per acre as would be applied in a dilute spray based on tree size and foliage volume, but not less than 8.6 ounces of Orius 20EW per acre.</p> <p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Apply Orius 20EW up to and including the day of harvest (0-day PHI). • Do not apply more than 103 oz. (1.34 lb AI/A per season) of product per acre per crop season. • Do not mix Orius 20EW with other DMI fungicides. • ¹When using the 4.3 oz/100 gal. rate, use at least 8.6 oz (0.11 lb AI/A per season) of Orius 20EW per acre. • ²The amount of Orius 20EW required per acre will depend on tree size and volume of foliage present. • Apply 12.9 to 17.2 ounces (0.17 to 0.22 lb AI/A per season) per acre of Orius 20EW when severe disease conditions exist. 			
CROP	DISEASE	RATE OF ORIUS 20EW	
SMALL FRUIT VINE CLIMBING EXCEPT FUZZY KIWIFRUIT, SUBGROUP 13-07F[*] Amur river grape Gooseberry Grape Kiwifruit, hardy Maypop Schisandra berry Cultivars, varieties and/or hybrids of these	Black rot Powdery mildew	8.6 oz. per acre	
<p>Powdery Mildew: Apply in a preventive spray schedule. Make the first application of Orius 20EW before bloom and continue applications using spray intervals of up to 21 days in low to moderate</p>			

disease pressure. Use a 14 day schedule when disease pressure is severe.

Black Rot: Preventive Schedule: Make the first application at 1 to 3 inches of new shoot growth and continue at 7 to 14 day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Apply at 1 inch new shoot growth and at 7 to 10 day intervals on highly susceptible varieties or under severe disease conditions. **Post-Infection Schedule:** A post-infection schedule may be followed from 1 inch new shoot growth through 5° Brix stage. Apply within 72 hours after the beginning of an infection period. Orius 20EW applications should not be closer than 7 days apart. Continue Orius 20EW applications using the preventive schedule if the post-infection schedule is discontinued.

Botrytis: Orius 20EW, applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for control of Botrytis bunch rot. Applications must be made on a 14 day schedule for suppression of Botrytis.

APPLICATION INSTRUCTIONS:

Apply product in sufficient water for thorough coverage of vines and fruit. Increase spray volume as vine growth increases.

Orius 20EW is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in a tank-mix or alternated (every other spray application) with a non-DMI fungicide as a resistance management strategy.

RESTRICTIONS:

- Apply Orius 20EW up to 14 days before harvest.
- Apply a maximum of 68.8 fl oz (0.90 lb AI/A per season) of Orius 20EW per acre per crop season.
- **The minimum interval between applications is 7 days.**
- Tank-mixing Orius 20EW with other DMI fungicides is not recommended.

CROP	DISEASE	RATE OF ORIUS 20EW
BANANA	Black leaf streak	6.88 oz per acre
PLANTAIN	Yellow sigatoka	

APPLICATION INSTRUCTIONS:

Apply specified dosage as a foliar spray in a minimum of 20 gallons or more of water per acre to assure thorough coverage of the plants. A spray oil recommended for use on banana or plantain should be utilized at 4.3 pints per acre in tank-mix with Orius 20EW. Thoroughly mix Orius 20EW in the spray solution prior to the addition of a spray oil.

RESTRICTIONS:

- A maximum of 34.4 fl oz of Orius 20EW (0.45 lb AI/A per season) may be applied per acre per harvest cycle.
- Orius 20EW may be applied up to the day of harvest.
- Do not apply Orius 20EW to non-bagged bananas.
- If harvesting is initiated before 12 hours, PPE is required
- Make the first application before disease becomes established and repeat applications at 14 day intervals if necessary to maintain disease control.

[*Not for use in California.]

OBSERVE THE FOLLOWING RESTRICTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, AND ESTUARIES.

Apply only during alternate years in fields adjacent to aquatic areas listed above.

Do not apply by ground or air within 100 feet of aquatic areas listed above.

Do not cultivate within 10 feet of an aquatic area to allow growth of a vegetative filter strip.

Aerial application is prohibited in New York state.

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

Use the largest droplet size consistent with pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. Apply in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Make aerial or ground applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on this label as soon as practical after last application. Any crop not specified on this label may be planted into treated areas 120 days after last application.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use and **LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the Conditions of Sale.

STORAGE AND DISPOSAL

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

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

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing-type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. For spills, fire, or leak, contact INFOTRAC: 1-800-535-5053.

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

CONTAINER HANDLING:

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

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with tebuconazole 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 mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ADAMA. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ADAMA makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of ADAMA is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ADAMA disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at ADAMA's election, the replacement of product.

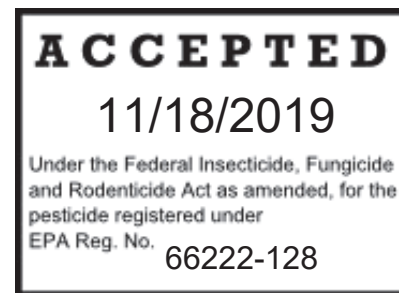
Orius is a registered trademark of an ADAMA Group Company.

Orius 20EW (66222-128): NOTIF 04-23-10; AMEND 10-31-2019

Orius[®] 20EW

A FOLIAR FUNGICIDE

FOR USE IN: PEACH, SUBGROUP 12-12B [*]
SUPPLEMENTAL LABELING



This label expires on November 22, 2022 and must not be distributed or used after that date.

READ THE ENTIRE LABEL FOR **Orius[®] 20EW** BEFORE PROCEEDING WITH THE USE
DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

“Label” as used in this supplemental labeling refers to the label booklet for **Orius[®] 20EW** and this
supplement.

ACTIVE INGREDIENT:	% BY WT.
Tebuconazole: alpha-[2-(4-chlorophenyl)ethyl]alpha-(1,1-dimethylethyl)-1 <i>H</i> -1,2,4-triazole-1-ethanol	20.0%
OTHER INGREDIENTS:	80.0%
	TOTAL 100.0%

Contains 1.67 pounds tebuconazole per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

Manufactured for:
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604

How can we help? 1-866-406-6262

EPA Reg. No. 66222-128

PEACH, SUBGROUP 12-12B [*]

DIRECTIONS FOR USE

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This supplemental labeling must be in the possession of the user at the time of pesticide application.
- Read the “Limitation of Warranty and Liability” in the label booklet for **Orius[®] 20EW** before using.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA registered label.
- These directions can be found on the currently registered EPA Stamped Label

APPLICATIONS			
CROP	DISEASE	RATE OF ORIUS 20EW	
CHERRY	Brown rot (blossom blight, fruit rot)	4.3 oz/100 gal ¹	8.6 to 17.2 oz/acre ²
PEACH, SUBGROUP 12-12B [*] (Peach)			
NECTARINE			
CHERRY	Leaf spot Powdery mildew		
PEACH, SUBGROUP 12-12B [*] (Peach)	Rust	4.3 oz/100 gal	10.75 to 17.2 oz/acre

Blossom blight: Begin application at white bud on cherry or pink bud on peach and nectarine. Apply again at 50% bloom and at petal fall if conditions continue to be favorable for disease development.

Fruit rot: Begin applications two to three weeks before harvest and continue at 7 day intervals through the day of harvest. The blossom and fruit stages must be protected for optimum control of brown rot. If Orius 20EW is applied during only one of these stages, another registered fungicide should be applied to the other stage to provide optimum protection. Additional cover sprays during the early postbloom period are also important for preventing quiescent fruit infections in sweet cherry and peach.

Leaf spot: Begin application at petal fall or when first leaves unfold and continue applications at 7 to 14 day intervals. Applications should be made at 7 day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.

Powdery mildew: Follow leaf spot schedule until terminal growth ceases.

Rust: Begin applications after canker emergence and continue applications at 14 day intervals under severe disease conditions.

APPLICATION INSTRUCTIONS:
Orius 20EW is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank-mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. For smaller trees, multiply 4.3 oz times the number of 100 gallons of spray solution required to thoroughly wet, to the point of runoff, one acre of the trees being treated. For concentrate sprays, apply the same amount of product per acre as would be applied in a dilute spray based on tree size and foliage volume, but not less than 8.6 ounces of Orius 20EW per acre.

RESTRICTIONS:

- Apply Orius 20EW up to and including the day of harvest (0-day PHI).
- Do not apply more than 103 oz. (1.34 lb AI/A per season) of product per acre per crop season.
- Do not mix Orius 20EW with other DMI fungicides.
- ¹When using the 4.3 oz/100 gal. rate, use at least 8.6 oz (0.11 lb AI/A per season) of Orius 20EW per acre.
- ²The amount of Orius 20EW required per acre will depend on tree size and volume of foliage present.
- Apply 12.9 to 17.2 ounces (0.17 to 0.22 lb AI/A per season) per acre of Orius 20EW when severe disease conditions exist.

[*Not for use in California.]

Orius is a registered trademark of an ADAMA Group Company.

ACCEPTED

11/18/2019

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 66222-128

Orius[®] 20EW

A FOLIAR FUNGICIDE

**FOR USE IN: SMALL FRUIT VINE CLIMBING EXCEPT FUZZY KIWIFRUIT,
SUBGROUP 12-07F[*]
SUPPLEMENTAL LABELING**

This label expires on November 22, 2022 and must not be distributed or used after that date.

READ THE ENTIRE LABEL FOR Orius[®] 20EW BEFORE PROCEEDING WITH THE USE
DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

“Label” as used in this supplemental labeling refers to the label booklet for Orius[®] 20EW and this
supplement.

ACTIVE INGREDIENT:	% BY WT.
Tebuconazole: alpha-[2-(4-chlorophenyl)ethyl]alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	20.0%
OTHER INGREDIENTS:	<u>80.0%</u>
	TOTAL 100.0%

Contains 1.67 pounds tebuconazole per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).

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How can we help? 1-866-406-6262

EPA Reg. No. 66222-128

SMALL FRUIT VINE CLIMBING EXCEPT FUZZY KIWIFRUIT, SUBGROUP 12-07F[*]

DIRECTIONS FOR USE

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This supplemental labeling must be in the possession of the user at the time of pesticide application.
- Read the “Limitation of Warranty and Liability” in the label booklet for Orius[®] 20EW before using.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA registered label.
- These directions can be found on the currently registered EPA Stamped Label

CROP	DISEASE	RATE OF ORIOUS 20EW
SMALL FRUIT VINE CLIMBING EXCEPT FUZZY KIWIFRUIT, SUBGROUP 13- 07F[*] Amur river grape Gooseberry Grape Kiwifruit, hardy Maypop Schisandra berry Cultivars, varieties and/or hybrids of these	Black rot Powdery mildew	8.6 oz. per acre
<p>Powdery Mildew: Apply in a preventive spray schedule. Make the first application of Orius 20EW before bloom and continue applications using spray intervals of up to 21 days in low to moderate disease pressure. Use a 14 day schedule when disease pressure is severe.</p> <p>Black Rot: Preventive Schedule: Make the first application at 1 to 3 inches of new shoot growth and continue at 7 to 14 day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Apply at 1 inch new shoot growth and at 7 to 10 day intervals on highly susceptible varieties or under severe disease conditions. Post-Infection Schedule: A post-infection schedule may be followed from 1 inch new shoot growth through 5° Brix stage. Apply within 72 hours after the beginning of an infection period. Orius 20EW applications should not be closer than 7 days apart. Continue Orius 20EW applications using the preventive schedule if the post-infection schedule is discontinued.</p> <p>Botrytis: Orius 20EW, applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for control of Botrytis bunch rot. Applications must be made on a 14 day schedule for suppression of Botrytis.</p> <p>APPLICATION INSTRUCTIONS: Apply product in sufficient water for thorough coverage of vines and fruit. Increase spray volume as vine growth increases. Orius 20EW is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in a tank-mix or alternated (every other spray application) with a non-DMI fungicide as a resistance management strategy.</p> <p>RESTRICTIONS:</p> <ul style="list-style-type: none"> • Apply Orius 20EW up to 14 days before harvest. • Apply a maximum of 68.8 fl oz (0.90 lb A/A per season) of Orius 20EW per acre per crop season. • The minimum interval between applications is 7 days. • Tank-mixing Orius 20EW with other DMI fungicides is not recommended. 		

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