Contains tebuconazole, the active ingredient used in Folicur 3.6F. Orius 3.6F is not manufactured or distributed by Bayer CropScience.

ACTIVE INGREDIENT:
Tebuconazole, alpha-[2-(4-chlorophenyl)ethyl]-alpha-
(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol. .................................................. 38.7%

INERT INGREDIENTS: ......................................................................................... 61.3%

TOTAL: ............................................................................................................. 100.0%

Contains 3.6 pounds tebuconazole per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Reg. No. 66222-117
EPA Est. No. 34704-MS-002 (PM); 37429-GA-001 (HT); 37429-GA-002 (BD)

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

For additional precautionary, handling, and use statements, see inside of this booklet.

Manufactured for:
Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609

Net Contents: 2.5 Gallons
Orius® 3.6F
FOLIAR FUNGICIDE

Contains tebuconazole, the active ingredient used in Folicur 3.6F. Orius 3.6F is not manufactured or distributed by Bayer CropScience.

ACTIVE INGREDIENT: % BY WT.
Tebuconazole, alpha-[2-(4-chlorophenyl)ethyl]-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol. .......................................................... 38.7%

INERT INGREDIENTS: .......................................................... 61.3%

TOTAL: .......................................................................................... 100.0%

Contains 3.6 pounds tebuconazole per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Reg. No. 66222-117
EPA Est. No. 34704-MS-002 (PM); 37429-GA-001 (BT); 37429-GA-002 (BO)

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

For additional precautionary, handling, and use statements, see inside of this booklet.

Manufactured for:
Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609

MANA

Net Contents: 2.5 Gallons
### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**
- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or Viton
- Shoes plus socks

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

### ENGINEERING CONTROLS STATEMENTS

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

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, fish, and 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. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

**Ground Water Advisory:** Tebuconazole is known to leach through soil into ground under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**Surface Water Label Advisory:** This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted within 48 hours.

### 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.

**Spray Volume:** Orius 3.6F 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.

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

**Mixing:** Add labeled amount of Orius 3.6F 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 3.6F should be thoroughly dispersed prior to the addition of other materials.

Do not tank mix with products containing a prohibition against tank mixing. Follow the most restrictive labeling requirements of any tank mix product.

**Compatibility:** To determine the compatibility of Orius 3.6F with other products, the following procedure should be followed: Pour the labeled 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 Makhteshim Agan representative.

### 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 for all crops except sweet corn and lychee. For sweet corn, the REI is 19 days. For lychee, the REI is 2 days.

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

### APPLICATION INSTRUCTIONS

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPARAGUS</td>
<td>Rusts (<em>Puccinia</em> spp.)</td>
<td>4 to 6 fl oz per acre</td>
</tr>
</tbody>
</table>

**Notes:** Apply Orius 3.6F as a foliar spray to the developing ferns after harvest of spears is completed. Apply at the earliest sign of rust pustules or when weather conditions are conducive for rust development. Apply 4 to 6 fl oz of Orius 3.6F per acre (0.11 lb ai – 0.17 lb ai per acre) in alternation with another effective fungicide. Under conditions of severe rust pressure, use the higher rate. Repeat applications on a 14-day interval as necessary to maintain control of rust. Do not apply to harvestable spears. Do not apply within 100 days of harvest in California and 180 days in all other states. Do not make more than three foliar applications per season (18 fl oz/acre or 0.51 lb ai/acre).

**General Comments:** Applications may be made using ground or aerial application equipment. A 50-foot spray drift buffer zone is required for all aerial applications. For optimum disease control, the lowest labeled rate of a spray surfactant should be tank-mixed with Orius 3.6F. Orius 3.6F is a sterol demethylation inhibitor (DMI) fungicide (Group 3). Alternating Orius 3.6F with other DMI fungicides may lead to resistance. Restricted-entry interval (REI) = 12 hours.
<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEANS</td>
<td>Rust <em>(Uromyces appendiculatus)</em></td>
<td>4 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td>(fresh &amp; dry except succulent shelled)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Notes:</strong> Apply Orius 3.6F in a protective spray schedule or when weather conditions are favorable for rust development. Repeat applications at 14-day intervals or as necessary to maintain control. Beans, fresh: Orius 3.6F may be applied up to 7 days before harvest. Do not apply more than 24 fl oz of Orius 3.6F per acre per crop season. Beans, dry: Orius 3.6F may be applied up to 14 days before harvest. Do not apply more than 12 fl oz of Orius 3.6F per acre per crop season.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>General Comments:</strong> For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on bean foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). Restricted-entry interval (REI) = 12 hours.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Restricted-entry interval (REI) = 12 hours.</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Cotton

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate of Orius 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton</td>
<td>Southwestern cotton rust</td>
<td>6 to 8 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td><em>(Puccinia cacabata)</em></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Apply Orius 3.6F in a protective spray schedule or when weather conditions are favorable for rust development. Repeat applications at 7- to 14-day intervals or as necessary to maintain control. Orius 3.6F may be applied up to 30 days before harvest. Do not apply more than 24 fl oz of Orius 3.6F per acre per crop season.

**General Comments:** For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on cotton foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). Restricted-entry interval (REI) = 12 hours.
<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CUCURBIT VEGETABLES GROUP</strong></td>
<td>Powdery mildew</td>
<td>4 to 6 fl oz per acre</td>
</tr>
<tr>
<td>Chayote</td>
<td>(<em>Sphaerotheca fuliginea</em> / <em>Podosphaera xanthii</em>)</td>
<td></td>
</tr>
<tr>
<td>Chinese waxgourd</td>
<td>(Erysiphe cichoracearum)</td>
<td></td>
</tr>
<tr>
<td>Citron melon</td>
<td>Gummy stem blight - suppression</td>
<td>8 fl oz per acre</td>
</tr>
<tr>
<td>Cucumber</td>
<td>(<em>Didymella bryonae</em>) (watermelon, squash, pumpkin, and melons only)</td>
<td></td>
</tr>
<tr>
<td>Gherkin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edible gourd, (includes hyotan, cucuzza, hechima, and Chinese okra)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Momordica spp. (includes balsam apple, balsam pear, bitter melon, and Chinese cucumber)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muskmelon (includes cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pumpkin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, and spaghetti squash)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Watermelon</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Apply the specified dosage in a protective spray schedule to foliage and fruit. Repeat applications at 10- to 14-day intervals. Orius 3.6F may be applied up to 7 days before harvest. Do not apply more than 24 fl oz of Orius 3.6F per acre per crop season.

**General Comments:** For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). Restricted-entry interval (REI) = 12 hours.
<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRY BULB ONION, GARLIC, GREAT-HEADED (ELEPHANT) GARLIC, WELCH ONION, SHALLOT</td>
<td><strong>White rot</strong> <em>(Sclerotium cepivorum)</em></td>
<td>White rot: 20.5 fl oz per acre applied in a 4- to 6-inch band over/into each furrow. May be applied by chemigation to control white rot.</td>
</tr>
<tr>
<td></td>
<td><strong>Rust</strong> <em>(Puccinia allii, Puccinia porri)</em> <strong>Purple blotch</strong> <em>(Alternaria porri)</em></td>
<td>4 to 6 fl oz per acre</td>
</tr>
<tr>
<td><strong>White rot</strong>: For the control of white rot, make one application in the furrow at the time of planting. The infurrow application should be made at the rate of 20.5 fl oz Orius 3.6F per acre. Apply the entire per-acre rate in a 4- to 6-inch band over/into each furrow. Additional control may be obtained by including two foliar applications at 4 to 6 fl oz/acre. <strong>Rust</strong>: For the control of rust, make foliar applications at the rate of 4 to 6 fl oz Orius 3.6F per acre per application. Repeat at an interval of 10 to 14 days. Apply Orius 3.6F in a protective spray schedule or when weather conditions are favorable for rust development. <strong>Notes</strong>: Do not apply more than 32.5 fl oz Orius 3.6F per acre per season if an in-furrow treatment is made. If Orius 3.6F is not applied as an in-furrow treatment, then do not apply more than 12 fl oz Orius 3.6F per acre per season as a foliar spray. Do not apply within 7 days of harvest (PHI = 7 days).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General Comments**: For optimum results, use as a preventative treatment. Begin applications as soon as crop and/or environmental conditions become favorable for disease development. The lowest labeled rate of a spray surfactant may be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). Restricted-entry interval (REI) = 12 hours.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN ONION, LEEK, SPRING ONION, SCALLION, JAPANESE BUNCHING ONION, GREEN SHALLOTS AND GREEN ESCHALOTS</td>
<td><strong>White rot caused by Sclerotium cepivorum</strong> suppression only <strong>Rust</strong> <em>(Puccinia allii, Puccinia porri)</em> <strong>Purple blotch</strong> <em>(Alternaria porri)</em></td>
<td>4 to 6 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td>For the control of diseases, make foliar applications using an interval of 10 to 14 days. Apply Orius 3.6F in a protective spray schedule or when weather conditions are favorable for rust development. <strong>Notes</strong>: Do not apply more than 24 fl oz of Orius 3.6F per acre per season. Do not apply within 7 days of harvest (PHI = 7 days).</td>
<td></td>
</tr>
</tbody>
</table>

**General Comments**: For optimum results, use as a preventative treatment. Begin applications as soon as crop and/or environmental conditions become favorable for disease development. The lowest labeled rate of a spray surfactant may be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). Restricted entry interval (REI) = 12 hours.
### CROP | DISEASE | RATE OF ORIUS 3.6F
---|---|---
**GARDEN BEET**<br>roots and tops (leaves) | Cercospora leaf spot<br>(Cercospora beticola) | 3 to 7.2 fl oz per acre<br><br>Note: Make applications on 14-day intervals. Do not apply more than 28.8 fl oz Orius 3.6F per acre per season. Do not apply within 7 days of harvest (PHI = 7 days).<br><br>**General Comments:**
For optimum results, use as a preventative treatment. Begin applications as soon as crop and/or environmental conditions become favorable for disease development. The lowest labeled rate of a spray surfactant may be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).<br>Restricted-entry interval (REI) = 12 hours.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
</table>
**GRASSES GROWN FOR SEED**<br>Rusts (Puccinia spp.) | 4 to 8 fl oz per acre<br><br>Apply the specified rate of Orius 3.6F 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 6 to 8 fl oz/A and shorter spray intervals.<br><br>**General Comments:**
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. For optimum benefit, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. A maximum of 16 fluid ounces (1 pint) may be applied per acre per crop season. Orius 3.6F may be applied up to 4 days before harvest. Chaff, screenings, and straw from treated areas may be used for feed purposes; however, do not use forage, cut green crop, or use seed for feed purposes. Regrowth may be grazed starting 17 days after last application.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
</table>
**HOPS**<br>Powdery mildew<br>(Sphaerotheca humuli / Sphaerotheca macularis) | 4 to 8 fl oz per acre<br><br>Note: Apply the specified dosage in a protective spray schedule to foliage. Repeat applications at 10- to 14-day intervals. Orius 3.6F may be applied up to 14 days before harvest. Do not apply more than 32 fl oz of Orius 3.6F per acre per crop season. Increase the spray volume and the application rate as vine growth increases during the season.<br><br>**General Comments:**
For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).<br>Restricted-entry interval (REI) = 12 hours.
### LEAFY BRASSICA GREENS
(Broccoli raab, Chinese cabbage (bok choy), collards, kale, Mizuma, mustard greens, mustard spinach, rape greens, turnip greens)

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cercospora leaf spot (<em>Cercospora brassicicola</em>)</td>
<td>3 to 4 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td>Powdery mildew (<em>Erysiphe cruciferarum</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternaria leaf spot (<em>Alternaria brassicicola</em>)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Do not apply more than 16 fl oz Orius 3.6F per acre per season. Do not apply within 7 days of harvest (PHI = 7 days).

**General Comments:** For optimum results, use as a preventative treatment. Begin applications as soon as crop and/or environmental conditions become favorable for disease development. The lowest labeled rate of a spray surfactant may be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).

**Restriction:** Application to turnip greens is limited to East of the Rockies.

Restricted Entry Interval (REI) = 12 hours.

### MANGO
(POSTHARVEST)

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Anthracnose (<em>Colletotrichum gloeosporioides</em>)</td>
<td>4 to 6 fl oz per acre</td>
</tr>
</tbody>
</table>

**Notes:** Begin first application of Orius 3.6F as panicle emerges. Spray up to 6 fl oz per acre every 10 days thereafter for a total of 8 sprays. Apply specified dosage in a minimum of 50 gallons of spray solution per acre by ground only. Do not apply more than 48 fl oz of Orius 3.6F per acre per season. Orius 3.6F can be applied up to and including the day of harvest (PHI = 0 days).

**General Comments:** For optimum disease control, the lowest labeled rate of a non-ionic spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).

Restricted-entry interval (REI) = 2 days.
**CROP** | **DISEASE** | **RATE OF ORIUS 3.6F**
--- | --- | ---
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 (Phoma)  
Pepper spot (Leptosphaerulina) | 7.2 fl oz per acre

**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 3.6F 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 labeled rate of a spray surfactant should be tank mixed with ORIUS 3.6F.

**LEAF SPOT ADVISORY SCHEDULE:** For control of soilborne diseases in an advisory schedule, apply Orius 3.6F in the first advisory spray in July and continue Orius 3.6F applications at 14-day intervals. Applications after August 15 should be tank mixed with chlorothalonil for resistance management purposes.

**GENERAL DIRECTIONS:** For optimum control of the specified soilborne diseases, four consecutive applications of Orius 3.6F must be made at 14-day intervals. A maximum of 28.8 fl oz of Orius 3.6F may be applied per crop season. Orius 3.6F may be applied up to 14 days before harvest. Do not feed hay or threshings or allow livestock to graze in treated areas.

Orius 3.6F is a sterol demethylation inhibitor (DMI) fungicide. Chlorothalonil may be tank mixed at the rate of 12 oz of active ingredient with Orius 3.6F as a leaf spot resistance management strategy. A spray surfactant is not necessary when Orius 3.6F is tank mixed with chlorothalonil. Mixing or alternating Orius 3.6F with other DMI fungicides may lead to resistance.

Orius 3.6F must be carried by rainfall or irrigation into the root and pod zone for control of root and pod rots caused by *Sclerotium rolfsii* and *Rhizoctonia solani*. Drought conditions will decrease the effectiveness of Orius 3.6F against the root and pod rots.

Use Orius 3.6F in conjunction with cultural practices that are known to reduce the severity of soilborne diseases such as proper crop rotation practices.

Restricted-entry interval (REI) = 12 hours.

**Timing of Orius 3.6F Application for Optimum Control of White Mold and Rhizoctonia Limb and Pod Rot**

<table>
<thead>
<tr>
<th>Spray Program</th>
<th>Orius 3.6F Application No.</th>
<th>Chlorothalonil Application No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 applications</td>
<td>3, 4, 5 and 6</td>
<td>1, 2 and 7</td>
</tr>
</tbody>
</table>
### Soybean

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOYBEAN</td>
<td>Rust (<em>Phakopsora pachyrhizi</em>)</td>
<td>3 to 4 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td>Powdery mildew (<em>Microsphaera diffusa</em>)</td>
<td></td>
</tr>
</tbody>
</table>

**Use Directions:** Apply Orius 3.6F as a broadcast foliar spray as a preventative spray or at first visible symptoms of disease. Repeat applications on a 10- to 14-day spray interval if environmental conditions are favorable for continued disease development. Use of the higher rates and shorter spray intervals are labeled when disease pressure is severe. The lowest labeled rate of a spray surfactant must be tank mixed with Orius 3.6F. Orius 3.6F should be applied in a minimum of 10 gallons of spray solution per acre by ground sprayer or in a minimum of 5 gallons per acre by aircraft spray equipment.

**Restrictions:** Applications may not be made within 21 days of harvest. Do not apply more than 3 applications per season. Do not apply more than 12 fl oz/A per use season. Restricted-entry interval (REI) = 12 hours.

---

### Pecan

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE OF ORIUS 3.6F</th>
</tr>
</thead>
<tbody>
<tr>
<td>PECAN</td>
<td>Brown leaf spot (<em>Sirosporium diffusium</em>)</td>
<td>4 to 8 fl oz per acre</td>
</tr>
<tr>
<td></td>
<td>Downy spot (<em>Mycosphaerella caryigena</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liver spot (<em>Gnomonia caryae</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scab (<em>Cladosporium caryigenum</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vein spot (<em>Gnomonia nerviseda</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zonate leaf spot (<em>Grovesinia pyramidalis</em>)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Apply Orius 3.6F in a preventive spray schedule beginning at early bud break (young leaves unfolding) and continue applications at 10- to 14-day intervals through the pollination period. Orius 3.6F should be applied at 4 fl oz per acre in a tank mix with the labeled rate of Super-Tin® in cover sprays. Follow label directions for the use of Super-Tin. Apply Orius 3.6F in a spray volume of 15 or more gallons per acre by air or 50 or more gallons per acre by ground. Apply 7 to 8 fl oz per acre of Orius 3.6F to full-size mature trees and 4 to 6 fl oz per acre of Orius 3.6F to smaller trees. Apply the high rate to varieties that are highly susceptible to the indicated diseases or when severe disease conditions exist. The lowest labeled rate of a surfactant may be added to the spray solution for optimum control of the indicated diseases. Do not apply after shucks begin to split. A maximum of 32 fl oz of Orius 3.6F may be applied per acre per crop season. Do not cut cover crops in treated areas for feed or allow livestock to graze treated areas.

**General Comments:** For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3). It may be applied in a tank mix or alternated (every other spray application) with a non-DMI fungicide as a resistance management strategy. Restricted-entry interval (REI) = 12 hours.
**SUNFLOWER**

**DISEASE**  
Rust  (*Puccinia helianthi*)

**Rate of Orius 3.6F**  
4 to 6 fl oz per acre

**Notes:** Apply specific dosage of Orius 3.6F at the earliest sign of infection (rust pustules developing) or when weather conditions are favorable for rust development. Apply higher rate to highly susceptible varieties and/or under severe disease conditions. Application may be repeated at 14 days if necessary to maintain control of the disease. Apply specified dosage in a minimum of 20 gallons of spray solution per acre by ground or a minimum of 5 gallons of spray solution by air. Do not apply more than 16 fl oz of Orius 3.6F per acre per season or within 50 days of harvest.

**General Comments:** For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Contact your state extension service or Makhteshim Agan representative for a list of approved surfactants. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).

Restricted-entry interval (REI) = 12 hours.

---

**TURNIP**  
(Application is limited to East of the Rockies)

**DISEASE**  
Cercospora leaf spot  (*Cercospora brassicicola*)

**Rate of Orius 3.6F**  
4 to 7.2 fl oz per acre

**Notes:** Apply the specified dosage in a protective spray schedule to foliage. Repeat applications at 12- to 14-day intervals. Orius 3.6F may be applied up to 7 days before harvest. Do not apply more than 28.8 fl oz of Orius 3.6F per acre per crop season.

**General Comments:** For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).

Restricted-entry interval (REI) = 12 hours.

---

**WHEAT**

**DISEASE**  
Rusts; leaf, stem, and stripe  (*Puccinia* spp.)

Head blight or scab  (*Fusarium* spp.) – Suppression

**Rate of Orius 3.6F**  
4 fl oz per acre

**Notes:** Wheat fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development. A maximum of 4 fl oz of Orius 3.6F may be applied per acre per crop season. Do not apply within 30 days of harvest. Straw may be fed or used for bedding. Do not allow livestock to graze or feed green forage to livestock prior to 6 days after treatment with Orius 3.6F. Apply Orius 3.6F in a minimum of 10 gallons of spray solution per acre by ground or in a minimum of 5 gallons of spray solution per acre by air.

**Application timing directions:**
Rusts: Apply Orius 3.6F at the earliest sign of rust pustules on foliage.
Fusarium head blight: Optimal timing of Orius 3.6F for Fusarium head blight suppression is the beginning of flowering on main stem heads (Feekes 10.51).

**General Comments:** For optimum disease control, the lowest specified rate of a spray surfactant should be tank mixed with Orius 3.6F. Orius 3.6F must have two to four hours of drying time on plant foliage for the active ingredient to move systemically into plant tissue before rain or irrigation occurs. After this period of time, Orius 3.6F will be resistant to weathering. Orius 3.6F is a demethylation inhibitor (DMI) fungicide (Group 3).

Restricted-entry interval (REI) = 12 hours
**SEED TREATMENT** - Corn (Sweet Corn, Field Corn, Field Corn Grown For Seed, and Popcorn)
For control of soilborne and seedborne Fusarium and soilborne and seedborne head smut.

**SEED LABELING:** To meet U.S. Federal Seed Act requirements, all seed treated with Orius 3.6F must be labeled:

**TREATED SEED. DO NOT USE FOR FOOD, FEED, OR OIL PURPOSES. Treated with Tebuconazole.**

**USE PRECAUTION:** When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>RATE FL OZ/CWT</th>
<th>DIRECTIONS FOR USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soilborne and Seedborne</td>
<td>0.071</td>
<td>Apply as a seed treatment using standard slurry or mist-type seed treatment equipment. Uniform application of seed is necessary to ensure seed safety and best disease protection. Seed should be sound and well cured prior to treatment. Product should be diluted with sufficient water to ensure complete seed coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop to be treated with Orius 3.6F. The length of control will vary depending on the rate used.</td>
</tr>
<tr>
<td>Fusarium</td>
<td>0.27-0.54</td>
<td></td>
</tr>
</tbody>
</table>

*Not registered for use in California unless accompanied by a supplemental label.

**OBSERVE THE FOLLOWING PRECAUTIONS 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.
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.
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 Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.
DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. 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 Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. 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 Makhteshim Agan of North America, Inc.’s election, the replacement of product.

Orius is a registered trademark of Irvita Plant Protection, N.V.