Topaz®

By WinField

Broad-spectrum fungicide for control of plant diseases

ACTIVE INGREDIENT:
Propiconazole (CAS No. 60207-90-1) 41.8%

OTHER INGREDIENTS*
58.2%

TOTAL 100.0%

Contains 3.6 lbs. of propiconazole per gallon.

*Contains petroleum distillates.

KEEP OUT OF REACH OF CHILDREN

WARNING – AVISO

Si usted no entiende la etiqueta, busque a alguien para que se le explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail.)

FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC (800) 424-9300

See inside booklet for additional PRECAUTIONARY STATEMENTS and DIRECTIONS FOR USE.

434015S0041

NET CONTENTS: 1 GALLON (3.785 L)

EPA Reg. No. 42750-211-1381
EPA Est No. 42750-MO-001

DISTRIBUTED BY:
WINFIELD SOLUTIONS, LLC
P.O. BOX 64589, ST. PAUL, MN 55164-0589

FUNGICIDE

PEEL HERE TO OPEN

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.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN:
Contains petroleum distillate–vomiting may cause aspiration pneumonia.

HOT LINE NUMBER

In case of a medical emergency call 1-877-424-7452 or a transport emergency, call CHEMTREC toll free at 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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PROOF

THIS PROOF IS TO BE CHECKED FOR ACCURACY

Please review and approve Text, Spelling, Copy Placement, Size, Shape, Colors and Dieline.

Authorized signature accepts responsibility for accuracy of all copy, color break and artwork. Cimarron Label is not liable for any discrepancies subsequently identified.

PLEASE NOTE: Due to color variance between printers/monitors, the colors represented by this proof cannot be deemed accurate. Please refer to a color matching system such as the Pantone Matching System for a truer representation of set color.

THIS PROOF IS NOT ACCURATE FOR COLOR-MATCH. Dieline does not print.
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43401AS0041

统一# 1408091
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING/AVISO: Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing spray mist. This product may cause skin sensitization reactions in certain individuals.

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 G 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 or viton
- Shoes plus socks
- Protective eyewear

USER SAFETY REQUIREMENTS
Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 CONTROL STATEMENTS
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater.
PHYSICAL OR CHEMICAL HAZARDS
Do not use, pour, spill, or store near heat or open flame.

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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.
Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.
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 or viton
- Shoes plus socks
- Protective eyewear

PRODUCT INFORMATION
TOPAZ® Fungicide is a broad-spectrum fungicide labeled for the control of many diseases.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.

PRODUCT USE PRECAUTIONS
Important: Do not use TOPAZ® Fungicide in greenhouses or as a tree injection.
Rotational Crops
To avoid possible illegal residues, do not plant any other crop intended for food, grazing, or any component of animal feed within 105 days of TOPAZ® Fungicide application to the preceding crop, unless the second
Integrated Pest Management
TOPAZ® Fungicide should be integrated into an overall disease and pest management strategy (IPM) whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for additional IPM strategies established for your area. TOPAZ® Fungicide may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

RESISTANCE MANAGEMENT

TOPAZ® Fungicide is in the Group 3 class fungicides. TOPAZ® Fungicide acts as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis by blocking demethylation. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. WINFIELD SOLUTIONS, LLC Crop Protection encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. TOPAZ® Fungicide should not be alternated or tank mixed with any fungicide to which resistance has already developed.

SPRAY EQUIPMENT

Thorough coverage is necessary to provide good disease control.
To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as crop injury may occur.
Air-assisted or airblast sprayers move spray droplets into the canopy using a forced airstream. Set up the fan to deliver only enough air volume to penetrate the canopy and provide good coverage. Adjust deflectors or other aiming devices to direct spray only to the target area.
Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.
Use a pump with capacity to: (1) maintain 35–40 psi at nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension – this requires recirculation of 10% of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.
Although TOPAZ® Fungicide is an emulsifiable concentrate, it is suggested that screens be used to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer’s recommendations.
For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current State agricultural recommendations.
MIXING INSTRUCTIONS

Prepare no more spray mixture than is required for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate the spray solution before and during application. Rinse spray tank thoroughly with clean water after each day’s use and dispose of pesticide rinsate by application to an already treated area.

**TOPAZ® Fungicide Alone:** Add 1/2 – 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the TOPAZ® Fungicide to the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the TOPAZ® Fungicide has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed.

**TOPAZ® Fungicide + Tank Mixtures:** TOPAZ® Fungicide is usually compatible with all tank mix partners listed on this label. To determine the physical compatibility of TOPAZ® Fungicide with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Add 1/2 – 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the tank mix partner into the tank. Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and the TOPAZ® Fungicide to the spray tank. Allow the TOPAZ® Fungicide to completely disperse. Spray the mixture with the agitator running.

If using TOPAZ® Fungicide in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate may be exceeded, and the most restrictive label precautions and limitations must be followed. This product may not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered. Do not mix TOPAZ® Fungicide with Syllit® or crop injury may occur.

APPLICATION INSTRUCTIONS

Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply in a manner that will result in exposure to humans or animals.

**Ground Application:** For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise. For other crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise.

**Aerial Application:** For tree crops, apply in a minimum of 10 gallons of water/A unless specified otherwise. For other crops, apply in a minimum of 2 gallons of water per acre unless specified otherwise.

**Application Through Irrigation Systems (Chemigation):** Apply TOPAZ® Fungicide through irrigation equipment only to crops for which chemigation is specified on this label. For chemigation, apply in 0.1–0.25 inch of water. Chemigation with excessive water may lead to a decrease in efficacy.

TOPAZ® Fungicide, alone or in combination with other pesticides which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. Do not apply this product through any...
other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Notes: Do not inject TOPAZ® Fungicide at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part TOPAZ® Fungicide. TOPAZ® Fungicide is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

Operating Instructions
1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
6. 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.
7. Do not apply when wind speed favors drift beyond the area intended.

Center Pivot Irrigation Equipment
Notes: (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating TOPAZ® Fungicide through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 1/8 – 1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying TOPAZ® Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80 – 95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of TOPAZ® Fungicide required to treat the area covered by the irrigation system.
- Add the required amount of TOPAZ® Fungicide and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the TOPAZ® Fungicide solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the TOPAZ® Fungicide solution has cleared the sprinkler head.
Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20- to 30-minute interval. When applying TOPAZ® Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of TOPAZ® Fungicide required to treat the area covered by the irrigation system.
- Add the required amount of TOPAZ® Fungicide into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the TOPAZ® Fungicide solution has cleared the last sprinkler head.

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almonds</td>
<td>Brown Rot Blossom Blight (Monilinia laxa, M. fructicola)</td>
<td>4–8</td>
<td>Apply TOPAZ® Fungicide at 5–10% bloom and 50–100% bloom. Under severe disease conditions, use the highest rate. Minimum retreatment interval is 7 days.</td>
</tr>
<tr>
<td></td>
<td>Anthracnose (Collectotrichum acutatum)</td>
<td>8</td>
<td>Apply TOPAZ® Fungicide beginning at bud break on a 7- to 14-day interval.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume should be used to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 32 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
3) Do not apply within 60 days of harvest.
4) Do not graze livestock in treated areas or cut treated cover crop for feed.
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<tr>
<td>Banana and Plantains</td>
<td>Black Sigatoka <em>(Mycosphaerella fijiensis)</em></td>
<td>3</td>
<td>Apply TOPAZ® Fungicide before disease symptoms appear at the onset of the rainy season. Apply 3 fl. oz. of TOPAZ® Fungicide/A in 10–20 gallons of water/A. Apply no more than 2 consecutive applications on a 21- to 25-day schedule before rotating to another labeled product with a different mode of action for at least 2 sprays. A maximum of 8 applications can be made. If possible, it is recommended to have at least 2 consecutive months “triazole-free” during the period of lower disease pressure.</td>
</tr>
</tbody>
</table>

**Mixing Procedure**

**Oil-in-Water Emulsion**
1. Add the crop oil to the spray tank.
2. Add the emulsifier (0.6 fl. oz./gal. of oil) and TOPAZ® Fungicide to the spray tank and mix thoroughly for 5 minutes.
3. Add water to the spray tank and mix thoroughly for 15 minutes.

**Oil Alone**
1. Add crop oil to the spray tank.
2. Add the TOPAZ® Fungicide to the spray tank and mix thoroughly for 5 minutes.

Maintain agitation.

**Specific Use Restrictions:**
1) Do not apply TOPAZ® Fungicide within 100 yards of non-bagged bananas.
2) Do not apply TOPAZ® Fungicide on bananas unless they are protected by polyethylene bags.
3) Do not apply TOPAZ® Fungicide on plantains if the fruit present are not protected by polyethylene bags.
4) Do not apply more than 24 fl. oz. of TOPAZ® Fungicide during each growing season (this includes any pre-harvest sprays).
5) Do not feed whole bananas and plantains to animals.
6) Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/season.
Beets, garden

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<td></td>
<td>Leaf Spot (Cercospora beticola)</td>
<td>3-4</td>
<td>Begin applications at first sign of disease. Repeat on a 14-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td></td>
<td>Powdery Mildew (Erysiphe polygoni)</td>
<td></td>
<td></td>
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**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 14 days of harvest.
3) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.
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<td>Berries*</td>
<td>Mummyberry Disease <em>(Monilinia vaccinicorymbosi)</em></td>
<td>6</td>
<td>Make first application of TOPAZ® Fungicide beginning at green tip and repeat in 7–10 days. If conditions are favorable for disease development, additional applications may need to be made at pink bud and repeating every 7–10 days through petal fall.</td>
</tr>
<tr>
<td>*Bushberries</td>
<td>Leaf Spot and Stem Canker <em>(Septoria albopunctata)</em> Rust <em>(Pucciniastrum vaccinii)</em></td>
<td>6</td>
<td>Apply when conditions favor disease development. Repeat applications on a 4-week spray interval.</td>
</tr>
<tr>
<td>Bingleberry, Blackberry, Blueberry, Boysenberry, Currants, Dewberry, Elderberry, Gooseberry, Huckleberry</td>
<td>Leaf and Cane Spot <em>(Septoria rubi)</em></td>
<td>6</td>
<td>Apply as a delayed dormant spray after training in the spring. Repeat this application in the late spring, again at bud break, and again once flowering has begun.</td>
</tr>
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<td>*Caneberries</td>
<td>Powdery Mildew <em>(Microsphaera vaccinii)</em></td>
<td>6</td>
<td>Apply TOPAZ® Fungicide at 5–10% bloom. Repeat this application at full bloom and on a 14-day interval while conditions are favorable for disease development.</td>
</tr>
<tr>
<td>Loganberry, Lowberry, Marionberry, Ollalieberry, Red and Black Raspberry, Youngberry Juneberry Lingonberry Salal</td>
<td>Leaf Spot <em>(Septoria spp.)</em></td>
<td>6</td>
<td>Make first application any time prior to bloom and again after petal fall. If needed, repeat application just after harvest.</td>
</tr>
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**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground (a minimum of 5 gals./A) or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 30 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 30 days of harvest.
3) Do not apply more than 0.84 lb. a.i. propiconazole-containing product/A/season.
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<td>Carrots</td>
<td>Leaf Blights <em>(Cercospora carotae)</em> (suppression of <em>Alternaria dauci</em>)</td>
<td>4</td>
<td>Apply 4 oz. of TOPAZ® Fungicide when conditions favor disease development. Continue applications on a 7- to 10-day interval, using the shorter interval when disease conditions are severe. If desired, a spreader-sticker may be used.</td>
</tr>
<tr>
<td></td>
<td>Powdery Mildew <em>(Erysiphe polygoni)</em></td>
<td>TOPAZ® Fungicide plus chlorothalonil 2</td>
<td>Apply 2 oz. of TOPAZ® Fungicide with 0.75 lb. a.i. of chlorothalonil/A. Begin applications when conditions favor disease development. Continue applications on a 7- to 10-day interval.</td>
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<tr>
<td>Celery and Leaf Petioles subgroup</td>
<td>Early Blight <em>(Cercospora apii)</em> Late Blight <em>(Septoria apicola)</em></td>
<td>4</td>
<td>Apply TOPAZ® Fungicide on a 7-day schedule, either by ground or aerial application. If desired, TOPAZ® Fungicide may be mixed with appropriate spreader-sticker.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground (a minimum of 10 gals./A) or aerial application (a minimum of 5 gals./A).

**Specific Use Restrictions:**
1. Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2. Do not apply within 14 days of harvest.
3. Do not apply more than 0.45 lb a.i. propiconazole-containing product/A/season.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereals</td>
<td>Early Season Suppression of: Powdery Mildew (Blumeria spp., Erysiphe spp.) Leaf Blight (Septoria tritici) Glume Blotch (Stagonospora nordorum) Tan Spot (Pyrenophora tritici-repentis)</td>
<td>2–4</td>
<td>Apply TOPAZ® Fungicide in the spring. Follow up with a second application up to Feeks growth stage 10.5 for season-long control. Applications may be made not closer than a 14-day interval.</td>
</tr>
<tr>
<td>Wheat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control of Leaf Diseases: Rust (Puccinia spp.) Powdery Mildew (Blumeria spp., Erysiphe spp.) Leaf Blight (Septoria tritici) Glume Blotch (Stagonospora nordorum) Tan Spot (Pyrenophora tritici-repentis) Helminthosporium Leaf Blight (Drechslera tritici-repentis) Spot Blotch (Bipolaris sorokiniana) Net Blotch (Pyrenophora teres)</td>
<td>4</td>
<td>Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when TOPAZ® Fungicide is applied when the flag leaf is 50% to fully emerged. Applications may be made no closer than a 14-day interval. The use of oil-based adjuvant may improve the spray coverage and canopy penetration. TOPAZ® Fungicide can be applied through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues.</td>
</tr>
<tr>
<td></td>
<td>Foot Rot (Pseudocercosporella spp.)</td>
<td>4</td>
<td>Apply TOPAZ® Fungicide plus half rates of other EPA-registered fungicides such as Topsin® M. Apply at tillering, but before elongation has occurred.</td>
</tr>
<tr>
<td></td>
<td>Fusarium Head Blight Suppression</td>
<td>4</td>
<td>Apply TOPAZ® Fungicide at approximately 50% flowering. Addition of a penetrating type of adjuvant may increase Fusarium head blight suppression.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by ground, air or chemigation.

**Specific Use Restrictions:**
1) Do not apply within 30 days of harvest for forage or hay.
2) Do not apply more than 8 fl. oz./A/season of TOPAZ® Fungicide.
3) Do not apply more than 4 fl. oz./A/season of TOPAZ® Fungicide if forage or hay will be harvested.
4) Do not apply more than 0.22 lb. a.i. propiconazole-containing product/A/season.
5) Do not apply after Feekes 10.5 in wheat.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereals</td>
<td>Early Season Suppression of:    Powdery Mildew (Blumeria spp., Erysiphe spp.)</td>
<td>2–4</td>
<td>Apply TOPAZ® Fungicide in the spring. Follow up with a second application up to Feeks growth stage 10.5 for season-long control. Applications may be made not closer than a 14-day interval.</td>
</tr>
<tr>
<td></td>
<td>Leaf Blight (Septoria tritici)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Glume Blotch (Stagonospora nordsorum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tan Spot (Pyrenophora tritici-repentis)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control of Leaf Diseases:</td>
<td>Rust (Puccinia spp.)</td>
<td>4</td>
<td>Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when TOPAZ® Fungicide is applied when the flag leaf is 50% to fully emerged. Applications may be made no closer than a 14-day interval. The use of oil-based adjuvant may improve the spray coverage and canopy penetration. TOPAZ® Fungicide can be applied up to 45 days prior to harvest.</td>
</tr>
<tr>
<td></td>
<td>Powdery Mildew (Blumeria spp., Erysiphe spp.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leaf Blight (Septoria tritici)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Glume Blotch (Stagonospora nordsorum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tan Spot (Pyrenophora tritici-repentis)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Helminthosporium Leaf Blight (Drechslera tritici-repentis)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spot Blotch (Bipolaris sorokiniana)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Barley Scald (Rhynchosporium secalis)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Barley Stripe (Pyrenophora graminea)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Net Blotch (Pyrenophora teres)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foot Rot (Pseudocercosporella spp.)</td>
<td>4</td>
<td></td>
<td>Apply TOPAZ® Fungicide plus half rates of other EPA-registered fungicides such as Topsin® M. Apply at tillering, but before elongation has occurred.</td>
</tr>
<tr>
<td>Fusarium Head Blight Suppression</td>
<td>4</td>
<td></td>
<td>Apply TOPAZ® Fungicide at approximately 50% flowering. Addition of a penetrating type of adjuvant may increase Fusarium head blight suppression.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by ground, air or chemigation.

**Specific Use Restrictions:**
1. Do not apply within 30 days of harvest for forage or hay.
2. Do not apply more than 8 fl. oz./A/season of TOPAZ® Fungicide.
3. Do not apply more than 4 fl. oz./A/season of TOPAZ® Fungicide if forage or hay will be harvested.
4. Do not apply more than 0.22 lb. a.i. propiconazole-containing product/A/season.
5. Do not apply within 45 days of harvest for grain and straw or for cereals other than wheat.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus (non-bearing)</td>
<td>Greasy Spot (Mycosphaerella citri)</td>
<td>6–8</td>
<td>Begin applications in June. Apply on 30-day interval through August.</td>
</tr>
<tr>
<td>Calamondin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus hybrids</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grapefruit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kumquat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lemon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lime</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mandarin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orange (sour and sweet)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pummelo</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satsuma Mandarin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tangerine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Including all cultivars and/or hybrids of these.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 24 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply to citrus that will bear harvestable fruit within 12 months.
3) Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/season.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn Field Seed Popcorn</td>
<td>Northern Corn Leaf Blight (Setosphaeria turcica) Northern Corn Leaf Spot (Cochliobolus carbonum) Southern Corn Leaf Blight (Cochliobolus heterostrophus) Also known as Helminthosporium Leaf Blights (H. maydis, H. turcicum, H. carbonum)</td>
<td>2 – 4</td>
<td>For leaf blights apply TOPAZ® Fungicide when disease first appears. Continue on a 7- to 14-day schedule. Use the low rate when disease pressure is low. Under heavy disease pressure or if conditions are favorable for disease, apply the high rate.</td>
</tr>
<tr>
<td>Sweet Corn</td>
<td>Rusts (Puccinia spp.) Gray Leaf Spot (Cercospora zeae-maydis) Eye Spot (Aureobasidium zeae)</td>
<td>4</td>
<td>Apply TOPAZ® Fungicide when disease first appears. If conditions favorable for disease persist, continue to apply on a 7- to 14-day schedule. For best disease control, early applications (at initial disease onset) perform better.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by ground, air or chemigation.

**Specific Use Restrictions:**

**For Field Corn, Field Grown for Seed, and Popcorn**
1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 30 days of harvest for forage, grain and stover.
3) Do not apply more than 8 fl. oz./A/season of TOPAZ® Fungicide on field corn harvested for forage.
4) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.

**For Sweet Corn:**
1) Do not apply within 14 days of harvest for ears.
2) Do not apply within 14 days of harvest for forage.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cranberries</td>
<td>Cottonball (Monilinia\ oxycocci)</td>
<td>4–6</td>
<td>Make the first application at leaf bud break and repeat in 14 days. Make the third application at early bloom and repeat in 14 days. Under severe pressure, use the higher rate for control.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 20 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 24 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 45 days of harvest for cranberries.
3) Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/season.
4) Use is limited to OR, WA and WI.

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filberts (Hazelnuts)</td>
<td>Eastern Filbert Blight (Anisogramma anomala)</td>
<td>5–8</td>
<td>Begin applications when green leaf tissue becomes visible and continue on a 14- to 21-day interval. Under severe disease conditions, use the higher rate and shorter interval. <strong>NOTE:</strong> On certain varieties. TOPAZ® Fungicide applications may cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to TOPAZ® Fungicide treatments.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 32 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
3) Do not apply within 60 days of harvest.
4) Do not graze livestock in treated areas or cut treated cover crop for feed.
### Grasses Grown for Seed

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grasses Grown for Seed</td>
<td>Rusts <em>(Puccinia spp.)</em> Powdery Mildew <em>(Erysiphe graminis)</em> Selenophoma Stem Eyespot <em>(Selenophoma spp.)</em> Ergot Stem Diseases</td>
<td>4–8</td>
<td>Apply TOPAZ® Fungicide when powdery mildew infections, Selenophoma infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. Apply on a 14- to 21-day interval. To maximize control of severe rust pressure, apply 8 fl. oz./A and make applications at 14-day intervals until the seed is mature. Make the last application at least 20 days before seed matures. For bluegrass, it is important to begin application early in the growing season.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground, air (a minimum of 10 gals./A), or chemigation.

**Specific Use Restrictions:**
1) Do not feed hay cut within 20 days of the last application.
2) Do not graze treated areas within 140 days of the last application.
3) Do not apply more than 32 fl. oz./A/season of TOPAZ® Fungicide.
4) Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
5) Use is limited to ID, MN, NE, OR, and WA.

### Mint

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mint</td>
<td>Rust <em>(Puccinia menthae)</em></td>
<td>4</td>
<td>Begin applications when the plants are 2–4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.</td>
</tr>
</tbody>
</table>

**Application:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground in a minimum of 20 gals./A.

**Specific Use Restrictions:**
1) Do not apply within 30 days of harvest.
2) Do not apply more than 8 fl. oz./A/season of TOPAZ® Fungicide.
3) Do not apply more than 0.22 lb. a.i. propiconazole-containing product/A/season.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FL. OZ. PRODUCT/A</td>
<td></td>
</tr>
<tr>
<td>Onions (Dry Bulbs)</td>
<td>Purple Blotch (Alternaria porri)</td>
<td>TOPAZ® Fungicide solo 4–8</td>
<td>Begin applications when conditions favor disease development and continue on a 7- to 10-day interval. Use the higher rate and shorter interval when disease conditions are severe.</td>
</tr>
<tr>
<td>Garlic</td>
<td>Suppression of Botrytis Leaf Blight (Botrytis squamosa)</td>
<td>TOPAZ® Fungicide plus tank mix partner 2–4</td>
<td>Apply 2–4 oz. of TOPAZ® Fungicide in combination with another fungicide registered for control of botrytis leaf blight or purple blotch. Begin applications when conditions favor disease development and continue on a 7-day interval or according to the tank mix partner label. Use the higher rate when disease conditions are severe. To achieve optimum disease control use a wetting agent or spreader-sticker.</td>
</tr>
<tr>
<td>Onions (Dry Bulbs)</td>
<td>Leaf Spot (Cercospora spp.)</td>
<td>3–4</td>
<td>Begin applications at first sign of disease. Repeat on a 14-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Shallots (Dry Bulb)</td>
<td>Leaf Spot (Alternaria spp.)</td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Onions (Green)</td>
<td>Powdery Mildew (Erysiphe spp.)</td>
<td>3–4</td>
<td>Begin applications at first sign of disease. Repeat on a 14-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Green Onions</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Green Shallots</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Green Eschalots</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Japanese Bunching Onions</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Leeks</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Spring Onions</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Scallions</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td>And/or cultivars or hybrids of these.</td>
<td></td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
</tbody>
</table>

Application: TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground (a minimum of 15 gals./A) or aerial application (a minimum of 5 gals./A).

Specific Use Restrictions:
1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 14 days of harvest on dry bulb onions.
3) TOPAZ® Fungicide may be applied at 0 day PHI (day of harvest) for green onion types.
4) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.

CROP | TARGET DISEASES | USE RATE FL. OZ. PRODUCT/A | REMARKS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Parsley, fresh and dried leaves</td>
<td>Leaf Spot (Cercospora spp.)</td>
<td>3–4</td>
<td>Begin applications at first sign of disease. Repeat on a 14-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action.</td>
</tr>
<tr>
<td>Cilantro (Coriander), leaves</td>
<td>Leaf Spot (Alternaria spp.)</td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
<tr>
<td></td>
<td>Powdery Mildew (Erysiphe spp.)</td>
<td>3–4</td>
<td>If disease levels continue to increase, immediately switch to a fungicide with a different mode of action.</td>
</tr>
</tbody>
</table>

Application: TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground, air, or chemigation.

Specific Use Restrictions:
1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 14 days of harvest.
3) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.
### Peanuts

<table>
<thead>
<tr>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Leaf Spot (Cercospora arachidicola)</td>
<td>2.5–4</td>
<td>Apply TOPAZ® Fungicide beginning 35–40 days after planting or at the first appearance of disease. Continue applications on a 10- to 14-day schedule. Under heavy disease pressure use higher recommended application rates. TOPAZ® Fungicide also may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development. TOPAZ® Fungicide may be applied by ground, air or chemigation.</td>
</tr>
<tr>
<td>Late Leaf Spot (Cercosporidium personatum)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Rust (Puccinia arachidis)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Web Blotch (Phoma arachidicola)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### Southern Stem Rot (Sclerotium rolfsii)

<table>
<thead>
<tr>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>See &quot;REMARKS&quot; section for appropriate rate</td>
<td></td>
<td>Apply TOPAZ® Fungicide using one of the following schedules:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A. Apply 4 fl. oz./A of TOPAZ® Fungicide to the crown and pegging zones of the plant using chemigation or directed ground application. Begin applications 45 days after planting, or at the first appearance of disease. Repeat on a 14-day interval.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Apply 8 fl. oz./A of TOPAZ® Fungicide to the crown and pegging zones of the plant using chemigation or directed ground application. Make 2 applications: the first at pegging (approximately 60 days after planting) or at the first appearance of disease, and the second application 3–4 weeks later.</td>
</tr>
</tbody>
</table>

**Irrigation:** When applying TOPAZ® Fungicide in irrigation water for Southern Stem Rot control, use a minimum of 0.25–0.5 inch of irrigation water/A. Use enough water so that the fungicide penetrates the peanut canopy and reaches the crown of the plant where Southern Stem Rot is most active. When applying TOPAZ® Fungicide via irrigation or as a directed ground application, additional methods should be employed for leaf spot control.

### Specific Use Restrictions:

1. Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2. Do not apply within 14 days of harvest with low use rate (4 fl. oz./A).
3. Do not apply with 21 days of harvest if used high use rate (8 fl. oz./A).
4. Do not feed hay from treated fields to livestock if used high rate (8 fl. oz./A).
5. Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.
### CROP TARGET DISEASES USE RATE REMARKS

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pecans</td>
<td>Pecan Scab <em>(Cladosporium caryigenum)</em> Downy Spot <em>(Mycosphaerella caryigena)</em> Liver Spot <em>(Gnomonia caryae pv pecanae)</em> Vein Spot <em>(Gnomonia nerviseda)</em> Zonate Leaf Spot <em>(Cristulariella moricola)</em> Powdery Mildew <em>(Microsphaera penicillata)</em></td>
<td>4–8</td>
<td><strong>Pecan scab:</strong> Apply 4–8 fl. oz./A on a 14-day schedule during bud break and pre-pollination sprays. Apply 6–8 fl. oz./A during nut formation and cover sprays. Use higher rates when disease pressure is heavier. <strong>Other listed foliar diseases:</strong> Apply 4 fl. oz./A with other registered pecan products labeled for these mid- to late-season foliar diseases. Observe all directions, precautions, and limitations for the other products.</td>
</tr>
</tbody>
</table>

### Application:
**TOPAZ®** Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. **TOPAZ®** Fungicide may be applied by either ground or aerial application (a minimum of 20 gals./A).

The active ingredient(s) in this product may have effects on Federally-listed threatened and endangered species or critical habitat in some counties. When using this product, you must follow the measures contained in the County Bulletin for the county in which you are applying the pesticide. To determine whether your County has a Bulletin, consult [http://www.epa.gov/espp/bulletins.htm](http://www.epa.gov/espp/bulletins.htm). Bulletins also may be available from local pesticide dealers, Extension offices, or State pesticide agencies.

### Specific Use Restrictions:
1. Do not apply more than 32 fl. oz./A/season of **TOPAZ®** Fungicide.
2. Do not apply after shuck split.
3. Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
4. Do not graze livestock in treated areas or cut treated cover crop for feed.

### CROP TARGET DISEASES USE RATE REMARKS

<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pineapple</td>
<td>Butt rot <em>(Ceratocystis paradoxa)</em></td>
<td>0.75 fl. oz./100 gals. of water (1:17,000)</td>
<td><strong>Treatments can be made in either a cold or hot water dip.</strong> <strong>Cold Water Dip:</strong> Immerse crowns to give thorough wetting, remove, and allow to drain. <strong>Hot Water Dip:</strong> Maintain water temperature at 125°F (52°C). Soak crown for 20–30 minutes, remove, and allow to drain.</td>
</tr>
</tbody>
</table>

### Specific Use Restrictions:
1. Do not use treated crowns for food or feed.
2. Do not graze while plant is growing.
3. Do not graze tops until fruit is harvested.
4. Dispose of used dip solution according to local, State, and Federal regulations.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pistachios</td>
<td>Botryosphaeria Panicle and Shoot Blight (Botryosphaeria dothidea)</td>
<td>5–8</td>
<td>Begin applications when green leaf tissue becomes visible and continue on a 14- to 21-day interval. Under severe disease conditions, use the higher rate and the shorter interval. <strong>NOTE:</strong> Under certain conditions TOPAZ® Fungicide applications may cause smaller and/or greener leaves. Yields of pistachios displaying these characteristics have not been reduced due to TOPAZ® Fungicide treatments.</td>
</tr>
</tbody>
</table>

**Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 32 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 60 days of harvest.
3) Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
4) Do not graze livestock in treated areas or cut treated cover crop for feed.
### CROP | TARGET DISEASES | USE RATE FL. OZ. PRODUCT/A | REMARKS
--- | --- | --- | ---
Rice | Sheath Blight (*Rhizoctonia solani*)
Brown Leaf Spot (*Helminthosporium oryzae*)
Narrow Brown Leaf Spot (*Cercospora oryzae*)
Leaf Smut (*Entyloma oryzae*)
Sheath Spot (*Rhizoctonia oryzae*)
Kernel Smut (*Tilletia barclayana*)
Aggregate Sheath Spot (*Rhizoctonia oryzae-sativa*)
Black Sheath Rot (*Gaeumannomyces graminis*)
For disease suppression of:
False Smut (*Ustilaginoidea virens*)
Bacterial Blight (*Bacterial* spp.) | 6–10
*Timing of TOPAZ® Fungicide application will depend on disease severity, disease complex and rice variety/growth stage. Consult local Extension experts for local economic thresholds established for various rice varieties and diseases. TOPAZ® Fungicide should be applied on either of the following schedules as an aerial spray in 5–10 gals. of water/A.*
A. 6 fl. oz. at first internode elongation (up to 2-inch panicle) and repeat at swollen boot. Make the second application 14 days after the first application, but before the boot splits and head emerges. TOPAZ® Fungicide provides best control of sheath blight when the first application is applied at disease appearance in the field. The first application is recommended when 5% or fewer of the tillers are infected.
B. 10 fl. oz./A at first internode elongation (up to 2-inch panicle). The 10 oz. rate is recommended if greater than 10% of the tillers are infected with sheath blight. If disease reappears, use another registered fungicide for the second application.

**Tank mix option:** Apply 6 fl. oz./A of TOPAZ® Fungicide in a tank mix with Quadris or other fungicides for control of rice diseases.

Wild Rice (MN only) | Helminthosporium Leaf Blight (*Helminthosporium sp.*)
Brown Spot (*Bipolaris* spp.) | 6–8
*Apply 6 fl. oz./A of TOPAZ® Fungicide at both booting and heading, or make a single application of 8 fl. oz./A at booting. Minimum re-application interval is 10 days.*

Applications: TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by air.

The active ingredient(s) in this product may have effects on Federally-listed threatened and endangered species or critical habitat in some counties. When using this product, you must follow the measures contained in the County Bulletin for the county in which you are applying the pesticide. To determine whether your County has a Bulletin, consult www.epa.gov/espp/bulletins.htm. Bulletins also may be available from local pesticide dealers, Extension offices, or State pesticide agencies.

**Specific Use Restrictions:**
1) Do not apply to stubble or ratoon crop rice.
2) Do not use in rice fields where commercial farming of crayfish will be practiced.
3) Do not drain water from treated rice fields into ponds used for commercial fish farming.
4) Do not use water drained from treated fields to irrigate other crops.
5) Do not apply more than 12 fl. oz./A/season of TOPAZ® Fungicide.
6) Do not apply within 35 days of harvest.
7) Do not apply more than 0.34 lb. a.i. propiconazole-containing product/A/season.
8) Do not release flood water within 7 days of an application.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sorghum</td>
<td>Ergot (Claviceps sorghi)</td>
<td>3–4</td>
<td>Make the first application at or just prior to flowering. Repeat on a 5- to 7-day interval. Apply up to 4 times.</td>
</tr>
</tbody>
</table>

**Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground (a minimum of 15 gals./A) or aerial application (a minimum of 10 gals./A).

**Specific Use Restrictions:**
1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 30 days of harvest for forage.
3) Do not apply within 21 days of harvest for grain and stover.
4) Do not graze livestock or cut for green chop or silage within 30 days of application.
5) Do not apply more than 8 fl. oz. of TOPAZ® Fungicide (0.22 lb. a.i. propiconazole) on sorghum harvested for forage.
6) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybeans</td>
<td>Aerial Web Blight ( (Rhizoctonia solani) )</td>
<td>4–6</td>
<td><strong>Aerial Web Blight:</strong> Apply 5–6 fl. oz./A at the first appearance of disease and repeat the application 14–21 days later. Under severe disease conditions use the higher rate and shorter interval.</td>
</tr>
<tr>
<td></td>
<td>Anthracnose ( (Colletotrichum truncatum) )</td>
<td></td>
<td><strong>Other foliar diseases:</strong> Apply 6 fl. oz./A at growth stage R3 (early pod set when pods are 1/8–1/4 inch long) and 14–21 days later at growth stage R5 (pod fill).</td>
</tr>
<tr>
<td></td>
<td>Brown Spot ( (Septoria glycines) )</td>
<td></td>
<td><strong>Soybean rust:</strong> Apply 4–6 fl. oz./A at first indication that disease is in the area. For best control, prevention applications work best. Repeat on 14- to 21-day interval. Use higher rate and shorter interval when disease is present in field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than this or if disease and/or being aware of the proximity of the disease via monitoring systems will aid in the proper timing to maximize the effectiveness of the fungicide applications.</td>
</tr>
<tr>
<td></td>
<td>Frogeye Leaf Spot ( (Cercospora sojina) )</td>
<td></td>
<td>On certain varieties, TOPAZ® Fungicide applications may cause crinkled, smaller and/or greener leaves. Yields of dry beans displaying these characteristics have not been reduced due to TOPAZ® Fungicide treatments.</td>
</tr>
<tr>
<td></td>
<td>Soybean Rust ( (Phakopsora pachyrhizi) )</td>
<td></td>
<td><strong>Applications:</strong> TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application. Addition of an oil-based additive is recommended for improved coverage and penetration when applying by air.</td>
</tr>
</tbody>
</table>

**Specific Use Restrictions:**
1) Do not apply more than 12 fl. oz./A/season of TOPAZ® Fungicide.
2) Apply up to Stage R6.
3) Do not apply more than 0.34 lb. a.i. propiconazole-containing product/A/season.
<table>
<thead>
<tr>
<th>CROP</th>
<th>TARGET DISEASES</th>
<th>USE RATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Fruits</td>
<td>Brown Rot Blossom Blight (Monilinia spp.)</td>
<td>4</td>
<td>Apply TOPAZ® Fungicide at early bloom stage. If disease pressure is low, a second application may be made as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, make a second application from 75–100% bloom and a third application at petal fall.</td>
</tr>
<tr>
<td></td>
<td>Fruit Brown Rot (Monilinia spp.)</td>
<td>4</td>
<td>Apply as needed a maximum of 2 sprays during the preharvest period up to the day of harvest (0 day PHI). If high inoculum and severe disease conditions persist, apply another registered fungicide after the 2 TOPAZ® Fungicide applications.</td>
</tr>
<tr>
<td></td>
<td>Powdery Mildew (Podosphaera spp.)</td>
<td>4</td>
<td>Follow the Brown Rot Blossom Blight schedule. Make up to 2 additional applications on a 10- to 14-day interval from the end of petal fall to harvest.</td>
</tr>
</tbody>
</table>

**Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. Stone fruit diseases are most effectively controlled by ground applications. TOPAZ® Fungicide may be applied by ground or air (a minimum of 15 gals./A).

**Precaution:** Applications of TOPAZ® Fungicide during bloom to Stanley plums have occasionally caused fruit to be less oval in shape and smaller in size at harvest. To avoid this, do not apply TOPAZ® Fungicide to Stanley plums earlier than 21 days prior to harvest.

**Specific Use Restrictions:**
1) Do not apply more than 20 fl. oz./A/season of TOPAZ® Fungicide.
2) TOPAZ® Fungicide may be applied at 0 day PHI (day of harvest).
3) Do not apply more than 0.56 lb. a.i. propiconazole-containing product/A/season.
**CROP**       | **TARGET DISEASES**                          | **USE RATE FL. OZ. PRODUCT/A** | **REMARKS**                                                                                                                                                               
---             | ---------------------------------------------| -------------------------------| -------------------------------------------------------------------------------------------------------------------------------------------------------------------------- 
Strawberries   | Anthracnose *(Colletotrichum acutatum)*      | 4                              | Begin applications when disease levels are no more than 5%. Apply 4 fl. oz./A of TOPAZ® Fungicide up to 4 times on a 7-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. **Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground (a minimum of 20 gals./A) or aerial application (a minimum of 15 gals./A). **Specific Use Restrictions:** 1) Do not apply more than 16 fl. oz./A/season of TOPAZ® Fungicide. 2) TOPAZ® Fungicide may be applied at 0 day PHI (day of harvest). 3) Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/season.  
Sugar Beets    | Leaf Spot *(Cercospora beticola)*            | 4                              | Begin applications at first sign of disease. Repeat on a 10- to 14-day interval. Make no more than 2 consecutive applications before rotating to another registered fungicide with a different mode of action. If disease levels continue to increase, immediately switch to a fungicide with a different mode of action. **Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground, air or chemigation. **Specific Use Restrictions:** 1) Do not apply more than 12 fl. oz./A/season of TOPAZ® Fungicide. 2) Do not apply within 21 days of harvest. 3) Do not apply more than 0.34 lb. a.i. propiconazole-containing product/A/season.
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</table>
| Sugarcane | Pineapple disease               | 0.75 fl. oz./100 gals. of water (1:17,000) | Apply TOPAZ® Fungicide to cut seed pieces using one of the following methods:  
**Cold Water Dip:** Immerse seed pieces to give thorough wetting, remove, and allow to drain.  
**Hot Water Dip:** Maintain water temperature at 125°F (52°C). Soak the seed pieces for 20–30 minutes, remove, and allow to drain.  
**Conveyor Belt Treatment:** Treat seed pieces with TOPAZ® Fungicide/water solution using inline directed spray sufficient to wet cut ends. |

**Specific Use Restrictions:**
1) Dispose of used dip solution according to local, State, and Federal regulations.
2) Do not use treated seed pieces for food or feed.
<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Tree Nuts</td>
<td>Foliar Diseases</td>
<td>4–8</td>
<td>Apply TOPAZ® Fungicide at first sign of disease. Repeat on a 7- to 14-day interval.</td>
</tr>
<tr>
<td>Almond</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Beechnut</td>
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<td></td>
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<tr>
<td>Brazil Nut</td>
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<tr>
<td>Butternut</td>
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<tr>
<td>Cashew</td>
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<tr>
<td>Chestnut</td>
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<td>Chinquapin</td>
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<td>Filbert</td>
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<tr>
<td>Hickory</td>
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<td>Macadamia</td>
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<tr>
<td>Pecan</td>
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<tr>
<td>Walnut</td>
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<td></td>
<td></td>
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<tr>
<td>Pistachios</td>
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</tbody>
</table>

**Applications:** TOPAZ® Fungicide is most effective when applied and allowed to dry before a rainfall. For best results, use sufficient water to provide thorough coverage. TOPAZ® Fungicide may be applied by either ground or aerial application (a minimum of 15 gals./A). For best control of tree nut diseases, ground applications are recommended.

**Specific Use Restrictions:**
1) Do not apply more than 32 fl. oz./A/season of TOPAZ® Fungicide.
2) Do not apply within 60 days of harvest except for pecans (see specific directions).
3) Do not apply more than 0.90 lb. a.i. propiconazole-containing product/A/season.
4) Do not graze livestock in treated areas or cut treated cover crop for feed.
### CROP TARGET DISEASES USE RATE REMARKS

<table>
<thead>
<tr>
<th>CROP</th>
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<th>USE RATE</th>
<th>FL. OZ. PRODUCT/A</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>Pineapple (Hawaii only)</td>
<td>Butt Rot (Ceratocytis paradoxa)</td>
<td>0.75 fl. oz./100 gals. of water (1:17,000)</td>
<td>Treatments can be made in either a cold or hot water dip.</td>
<td></td>
</tr>
</tbody>
</table>

**Cold Water Dip:** Immerse crowns to give thorough wetting, remove, and allow to drain.

**Hot Water Dip:** Maintain water temperature at 125°F (52°C). Soak crown for 20–30 minutes, remove, and allow to drain.

### Specific Use Restrictions:

1. Do not use treated crowns for food or feed.
2. Do not graze while plant is growing.
3. Do not graze tops until fruit is harvested.
4. Dispose of used dip solution according to local, State, and Federal regulations.

<table>
<thead>
<tr>
<th>FL. OZ. OF TOPAZ® Fungicide/acre</th>
<th>LB. A.I./acre</th>
<th>ACRES TREATED PER 1 GALLON TOPAZ® Fungicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.056</td>
<td>64</td>
</tr>
<tr>
<td>4</td>
<td>0.1125</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>0.169</td>
<td>21.3</td>
</tr>
<tr>
<td>8</td>
<td>0.225</td>
<td>16</td>
</tr>
<tr>
<td>10</td>
<td>0.28</td>
<td>12.8</td>
</tr>
<tr>
<td>12</td>
<td>0.34</td>
<td>10.7</td>
</tr>
<tr>
<td>16</td>
<td>0.45</td>
<td>8</td>
</tr>
<tr>
<td>20</td>
<td>0.56</td>
<td>6.4</td>
</tr>
<tr>
<td>24</td>
<td>0.67</td>
<td>5.3</td>
</tr>
<tr>
<td>30</td>
<td>0.84</td>
<td>4.3</td>
</tr>
<tr>
<td>32</td>
<td>0.90</td>
<td>4</td>
</tr>
</tbody>
</table>
STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in the original container in a cool place.

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

CONTAINER DISPOSAL:
Plastic Containers: Triple rinse: Clean the container as described in “Container Rinsing Instructions” below.

For Bulk and Mini-Bulk Containers: Clean the container as described in “Container Rinsing Instructions” below.

Container Rinsing Instructions: 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.

CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

Refill Only With TOPAZ® Fungicide.

The contents of this container cannot be completely removed by cleaning. Refilling with materials other than TOPAZ® Fungicide will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.
CONDITIONS OF SALE AND LIMITATION
OF WARRANTY AND LIABILITY

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of WINFIELD SOLUTIONS, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold WINFIELD SOLUTIONS, LLC and Seller harmless for any claims relating to such factors.

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Syllit® is a trademark of Chimac-Agriphar S.A.
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