

This information is for promotional purposes only. Space considerations may require information to be omitted.  
Always refer to the actual package for complete label verbiage. This product may not yet be available or approved for sale or use in your area.

PROPICONAZOLE GROUP 3 FUNGICIDE

# MARAZO™

## fungicide

**ACTIVE INGREDIENT:**

Propiconazole: 1-[[2-(2, 4-dichlorophenyl)-4-propyl-1, 3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole ..... 41.8%

**OTHER INGREDIENTS:**..... 58.2%

**TOTAL** ..... 100.0%

Contains petroleum distillates.  
Contains 3.6 pounds of active ingredient per gallon.

EPA Reg. No. 91234-25-92488

### KEEP OUT OF REACH OF CHILDREN CAUTION

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

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give any liquid to the person.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall: 1-844-685-9173.	
<b>NOTE TO PHYSICIAN:</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

**For Chemical Emergency  
Spill, Leak, Fire, Exposure or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

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

Harmful if swallowed. Wash thoroughly with soap and water and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or viton
- Shoes plus socks

**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 CONTROLS STATEMENT**

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural practices [40 CFR 170.240(d)(6)].

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and shrimp. 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 cleaning equipment or disposing of equipment washwater or rinsate.

**PHYSICAL OR CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame. Do not mix or allow coming in contact with oxidizing agent or fire retardants. Hazardous chemical reactions may occur.

**DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the 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 including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate or Viton
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**Entry Restrictions for Non-WPS Uses: Do not enter into treated areas until sprays have dried.**

**CROPS**

**PRODUCT INFORMATION**

Marazo™ is a broad spectrum fungicide for the control of specified diseases in almonds, berries, carrots, celery, cereals (wheat, barley, rye, oats, and rice), citrus (non-bearing), corn, cranberries, filberts, mint, onions and other bulb vegetables, sorghum, stone fruit (apricots, nectarines, peaches, plums, and prunes), peanuts, pecans, pineapple, sugarcane, tree nuts, turf grown for seed, and turfgrass and ornamentals.

**Precaution:** Failure to follow directions and precautions on this label may result in crop injury, poor disease control, or illegal residues.

**Restriction: Do not use this product 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 or bedding within 105 days of an application of Marazo™ to the preceding crop unless the second crop appears on this label. Alfalfa can be planted 75 days after the last application of Marazo™ if the total application of propiconazole has not exceeded 0.22 pound active ingredient per acre during the previous year.

**Integrated Pest Management**

Marazo™ should be integrated into an overall disease and pest management (IPM) strategy whenever the use of 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. Marazo™ may be used in state agricultural extension advisory (disease forecasting) programs using the recommended application timing based upon environmental factors favorable for disease development.

## Fungicide Resistance Management

Marazo™ belongs to the sterol demethylation (DM1) class of fungicides and is classified as Group 3 Fungicide. Since certain fungi can develop resistance to this class of products, the use of Marazo™ should be part of a resistance management strategy that includes alternation and/or tank mixing with another fungicide mode of action. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Rotate to a product that is effective on the target pathogen and has a mode of action different from Marazo™. Apply the alternate products within the intervals specified on the label for Marazo™. Do not apply Marazo™ at rates below those specified on the label. If tank mixing, use the full label rate of Marazo™ with the full rates of other products effective on the target pest. Consult your local or state agricultural authorities for resistance management strategies that are appropriate for your disease management program. Marazo™ should not be alternated or tank mixed with any fungicide to which resistance has already developed.

## MIXING INSTRUCTIONS

### Application Rate Reference Table

Application Rate of Marazo™ (fl. oz./A)	Active Ingredient Equivalent (lb. a.i./A)	Acres/Gal of Marazo™
2.0	0.056	64
4.0	0.1125	32
6.0	0.169	21.3
8.0	0.225	16
10.0	0.28	12.8
12.0	0.34	10.7
16.0	0.45	8
20.0	0.56	6.4
24.0	0.67	5.3
30.0	0.84	4.3
32.0	0.90	4

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.

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

**Marazo™ - Tank Mixtures:** Marazo™ is usually compatible with all tank mix partners listed on this label. To determine the physical compatibility of Marazo™ 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 Marazo™ to the spray tank. Allow the Marazo™ to completely disperse. Spray the mixture with the agitator running.

Do not apply this product in a mix with a dodine fungicide for any uses on this label (except almonds), or crop injury will occur.

If using Marazo™ in a tank mix, it is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Do not tank mix this product with any product that 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.

## APPLICATIONS INSTRUCTIONS

Marazo™ is most effective when applied and allowed to dry before a rainfall. Avoid applying Marazo™ under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply in a manner which results in exposure to humans or animals.

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

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

**Chemigation Application:** Apply Marazo™ through properly equipped chemigation systems for disease control in the labeled crops. Refer to crop specific use directions for application rates, timing and frequency of application. Do not apply Marazo™ by chemigation to other labeled crops except as specified in AgBiome Innovations™, Inc. supplemental labeling or product bulletins. When applying this product by chemigation, do not exceed labeled rates or apply more frequently than directed for conventional application methods. Marazo™, alone or in combination with other pesticides that are registered for application through irrigation systems, may be applied through irrigation systems. For chemigation application to labeled crops, apply in 0.1 to 0.25 inches of water unless otherwise specified. Chemigation with excessive water may lead to a decrease in efficacy.

## SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, and relative humidity) and method of application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph.

**Droplet Size:** Apply as a medium or coarser spray (ASAE Standard 572).

**Temperature Inversions:** If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**Other State and Local Requirements:** Applicators must follow all state and local pesticide drift requirements regarding application of propiconazole. Where states have more stringent regulations, they must be observed.

**Equipment:** All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

### **Aerial Application:**

1. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
2. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
3. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

### **Groundboom Application:**

1. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

## **SPRAY EQUIPMENT**

Thorough coverage is necessary to provide good disease control.

Avoid spray overlap as crop injury may occur.

Air-assisted or air-blast sprayers use a forced air stream to move spray droplets into the canopy. 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 sufficient capacity to maintain 35-40 psi at nozzles and 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 sparger tube for agitation. Do not use air sparging.

Although Marazo™ 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 experiment station recommendations.

## **CHEMIGATION INSTRUCTIONS**

### **Precautions:**

- 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, 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.
- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank or at least twice the inside diameter of the fill pipe.

**Note:** Do not inject Marazo™ at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part Marazo™. Marazo™ 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.

### **Specific Equipment Requirements**

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

### **Center Pivot Irrigation Equipment**

- Use only with drive systems which provide uniform water distribution.
- Do not use end guns when applying Marazo™ 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 Marazo™ 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 only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Marazo™ required to treat the area covered by the irrigation system.
- Add the required amount of Marazo™ and sufficient water to meet the injection time requirements of the solution tank.
- Make sure the system is fully charged with water before starting injection of the Marazo™ 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.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Marazo™ solution has cleared the sprinkler head.

## Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinkler.
- Fill the injector solution tank with water and adjust flow rate to use the contents over a 20- to 30-minute interval. When applying Marazo™ through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Marazo™ required to treat the area covered by the irrigation system.
- Add required amount of Marazo™ into the same quantity of water used to calibrate the injection period.
- Maintain constant solution tank agitation during the injection period.
- Operate the system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during the calibration.
- Inject Marazo™ at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Marazo™ solution has cleared the last sprinkler head.

## CROP SPECIFIC INSTRUCTIONS

### ALMONDS

#### Use Restrictions

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.90 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (4 fl oz/A).
- Days between last application and harvest (PHI): 60 days.
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Marazo™ may be applied by either ground or air application in a minimum of 15 gal. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

For use on almonds only, Marazo™ may be tank mixed with a dodine fungicide (such as Syllit).

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Brown Rot Blossom Blight ( <i>Monilinia laxa</i> , <i>M. fructicola</i> )	4-8 fl. oz.	Apply Marazo™ in at least 15 gallons of spray per acre at 5-10% bloom and 50-100% bloom. Under severe disease conditions, use the highest rate. Minimum retreatment interval is 7 days.
Anthrachnose ( <i>Colletotrichum acutatum</i> )	8 fl. oz.	Apply Marazo™ at bud break on a 7-14 day interval.

### BANANAS AND PLANTAINS

#### Use Restrictions

- Do not apply more than 24 fl. oz. per acre per year (this includes any preharvest sprays) of Marazo™.
- Do not apply more than 0.67 lb. ai propiconazole containing product per acre per year.
- Do not exceed 8 applications per year.
- Do not apply Marazo™ within 100 yards of non-bagged bananas.
- Do not apply Marazo™ on bananas unless they are protected by polyethylene bags.
- Do not apply Marazo™ on plantains if the fruit present are not protected by polyethylene bags.
- Do not feed whole bananas and plantains to animals.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Black Sigatoka ( <i>Mycosphaerella fijiensis</i> )	3 fl. oz.	Make applications before disease symptoms appear at the onset of the rainy season. Apply specified rate of Marazo™ in 10 to 20 gallons of water per acre. Make 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. <b>Mixing Procedures:</b> <b>Oil-in-Water Emulsion:</b> Add the crop oil to the spray tank. Add the emulsifier (0.6 fl. oz. per gal. of oil) and Marazo™ to the spray tank and mix thoroughly for 5 minutes. Add water to the spray tank and mix thoroughly for 15 minutes. <b>Oil Alone:</b> Add crop oil to the spray tank. Add the Marazo™ to the spray tank and mix thoroughly for 5 minutes. Maintain agitation.

### BEETS, GARDEN

#### Use Restrictions

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 5 applications per year when applying at the lowest rate (3 fl oz/A).
- Days between last application and harvest (PHI): 14 days.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

Apply by ground, air or chemigation in sufficient volume to provide thorough coverage.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Leaf Spot ( <i>Cercospora beticola</i> ) Powdery Mildew ( <i>Erysiphe polygoni</i> )	3-4 fl. oz.	Begin application at first sign of disease. 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. Minimum retreatment interval is 14 days.



## BERRIES

### (Bushberries and Caneberries and cultivars and/or hybrids of these)

**Bushberries:** blueberry (highbush & lowbush), cranberry (highbush) currant (black & red), elderberry, gooseberry, lingonberry, native currant

**Additional Bushberries:** aronia berry, buffalo currant, chilean guava, european barberry, edible honeysuckle, huckleberry, kostaberry, juneberry (Saskatoon berry), salal, sea buckthorn

**Caneberries:** blackberry, loganberry, red and black raspberry, wild raspberry

**Additional Caneberries:** bingleberry, boysenberry, dewberry, lowberry, marionberry, Olallieberry, youngberry

Low Growing Berries (see Strawberry section)

### Use Restrictions

- Do not apply more than 30 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.84 lb. ai propiconazole containing product per acre per year.
- Do not exceed 5 applications per year.
- Days between last application and harvest (PHI): 30 days.

Marazo™ may be applied by either ground application in a minimum of 5 gals. per acre or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Mummyberry Disease ( <i>Monilinia vaccinicorymbosi</i> )	6 fl. oz.	Make first application of Marazo™ beginning at green tip and repeat in 7 to 10 days. If conditions are favorable for disease development, additional applications may need to be made at pink bud and repeated every 7 to 10 days through petal fall.
Leaf Spot and Stem Canker ( <i>Septoria albopucate</i> ) Rust ( <i>Pucciniastrum vaccinii</i> )	6 fl. oz.	Apply when conditions favor disease development. Repeat applications on a 4 week spray interval.
Leaf and Cane Spot ( <i>Septoria rubi</i> )	6 fl. oz.	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.
Powdery Mildew ( <i>Microsphaera vaccinii</i> )	6 fl. oz.	Apply Marazo™ at 5-10% bloom. Repeat this application at full bloom and on a 14 day interval while conditions are favorable for disease development.
Leaf Spot ( <i>Septoria</i> spp.)	6 fl. oz.	Make first application any time prior to bloom and again after petal fall. If needed, repeat application just after harvest.

## CARROTS

### Use Restrictions

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 8 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 14 days.

Marazo™ may be applied by either ground application in a minimum of 15 gals. per acre or air application in a minimum of 5 gals. per acre, or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Leaf Blights ( <i>Cercospora carotae</i> ) (suppression of <i>Alternaria dauci</i> )	4 fl. oz.	Apply 4 oz. of Marazo™ 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.
Powdery Mildew ( <i>Erysiphe polygoni</i> )	2 fl. oz. plus chlorothalonil	Apply 2 oz. of Marazo™ with 0.75 lb. ai of Chlorothalonil per acre. Begin applications when conditions favor disease development. Continue applications on a 7- to 10-day interval.

## CELERY AND LEAF PETIOLES SUBGROUP 4B

Celery, Chinese celery, cardoon, celtuce, fennel, Florence, rhubarb, Swiss chard

### Use Restrictions

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 8 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 14 days.

Marazo™ may be applied by either ground application in a minimum of 10 gals. per acre or air application in a minimum of 5 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Early Blight ( <i>Cercospora apii</i> ) Late Blight ( <i>Septoria apicola</i> )	4 fl. oz.	Apply Marazo™ on a 7-day schedule either by ground or air. If desired, Marazo™ may be tank mixed with an appropriate spreader-sticker.

**CEREALS**

Wheat

(also see next section for Barley, Rye, Triticale, Oats)

**Use Restrictions**

- Do not apply more than 8 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.022 lb. ai propiconazole containing product per acre per year.
- Do not exceed 2 applications per year when applying at the highest rate (4 fl oz/A) or 4 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 7 days for forage or hay
- Do not apply after Feekes growth stage 10.5.

Marazo™ may be applied by ground, air or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
<b>Early Season Suppression of:</b> Glume blotch <i>(Stagonospora nordorum)</i> Leaf Blight <i>(Septoria tritici)</i> Powdery Mildew <i>(Blumeria spp., Erysiphe spp.)</i> Tan Spot <i>(Pyrenophora tritici-repentis)</i>	2-4 fl. oz.	Apply Marazo™ in the spring. Make a second application up to Feekes growth stage 10.5 for season long control. Applications may be made no closer than a 14 day interval.
<b>Control of leaf diseases:</b> Glume blotch <i>(Stagonospora nordorum)</i> Helminthosporium leaf blight <i>(Drechslera tritici-repentis)</i> Leaf Blight <i>(Septoria tritici)</i> Net blotch <i>(Pyrenophora teres)</i> Powdery mildew <i>(Blumeria spp., Erysiphe spp.)</i> Rusts <i>(Puccinia spp.)</i> Spot blotch <i>(Bipolaris sorokiniana)</i> Tan Spot <i>(Pyrenophora tritici-repentis)</i>	4 fl. oz.	Protecting the flag leaf is important for maximizing the potential yield. When Marazo™ is applied at 50% to fully emerged plants, the highest yields are normally obtained. Applications may be made no closer than at 14 day intervals. The use of an oil based adjuvant may improve spray coverage and canopy penetration.  Marazo™ can be applied at full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues.
Foot rot <i>(Pseudocercospora spp.)</i>	4 fl. oz.	Apply Marazo™ plus half rates of other EPA-registered fungicides such as thiophanate-methyl. Apply at tillering but before elongation has occurred.
Fusarium head blight Suppression	4 fl. oz.	Apply Marazo™ at approximately 50% flowering. Addition of a penetrating type of adjuvant may increase Fusarium head blight suppression.

## CEREALS

Barley, Rye, Triticale, Oats

### Use Restrictions

- Do not apply more than 8 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.22 lb. ai propiconazole containing product per acre per year.
- Do not exceed 2 applications per year when applying at the highest rate (4 fl oz/A) or 4 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 7 days for forage or hay
- Do not apply after Feekes 9.

Marazo™ may be applied by ground, air, or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
<b>Early Season Suppression of:</b> Glume blotch ( <i>Stagonospora nordorum</i> ) Leaf Blight ( <i>Septoria tritici</i> ) Powdery Mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Tan spot ( <i>Pyrenophora tritici-repentis</i> )	2-4 fl. oz.	Apply Marazo™ in the spring. Make a second application up to Feekes growth stage 10.5 for season long control. Applications may be made no closer than a 14-day interval.
<b>Control of leaf diseases:</b> Barley scald ( <i>Rhynchosporium Secalis</i> ) Barley stripe ( <i>Pyrenophora graminea</i> ) Glume blotch ( <i>Stagonospora nordorum</i> ) Helminthosporium leaf blight ( <i>Drechslera tritici-repentis</i> ) Leaf blight ( <i>Septoria tritici</i> ) Net blotch ( <i>Pyrenophora teres</i> ) Powdery mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Rusts ( <i>Puccinia</i> spp.) Spot blotch ( <i>Bipolaris sorokiniana</i> ) Tan spot ( <i>Pyrenophora tritici-repentis</i> )	4 fl. oz.	Protecting the flag leaf is important for maximizing the potential yield. When Marazo™ is applied at 50% to fully emerged plants, the highest yields are normally obtained. Applications may be made no closer than at 14 day intervals. The use of an oil based adjuvant may improve spray coverage and canopy penetration. Marazo™ can be applied up to 45 days prior to harvest.
Foot rot ( <i>Pseudocercospora</i> spp.)	4 fl. oz.	Apply Marazo™ plus half rates of other EPA-registered fungicides such as thiophanate-methyl. Apply at tillering but before elongation has occurred.
Fusarium head blight Suppression	4 fl. oz.	Apply Marazo™ at approximately 50% flowering. Addition of a penetrating type of adjuvant may increase Fusarium head blight suppression.

## CITRUS (Non-Bearing)

Calamondin, citron, citrus hybrids, grapefruit, kumquat, lemon, lime, Mandarin orange (sour and sweet), pummelo, satsuma (mandarin), tangerine, including all cultivars and/or hybrids of these.

### Use Restrictions

- Do not apply more than 24 fl. oz. per acre per year of Marazo™.
- Do not apply more than 7.2 lb. ai propiconazole containing product per acre per year.
- Do not exceed 3 applications per year when applying at the highest rate (8 fl oz/A) or 4 applications per year when applying at the lowest rate (6 fl oz/A).
- Do not apply more than 8 fl. oz. (0.225 lb. ai) per acre per application.
- Do not apply to citrus that will bear harvestable fruit within 12 months.

Marazo™ may be applied by either ground application or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Greasy spot ( <i>Mycosphaerella citri</i> )	6-8 fl. oz.	Begin applications in June. Apply at 30 day intervals through August.



## CORN

### Field, Seed, Popcorn, Sweet Corn

#### Use Restrictions

##### Field Corn, Field Corn Grown for Seed, and Popcorn

- Do not apply more than 16 fl. oz. per acre per year of Marazo™. Do not apply more than 8 fl. oz. of Marazo™ on corn harvested for forage.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 8 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 30 days for forage, grain, and stover.

##### Sweet Corn:

- Days between last application and harvest (PHI): 14 days ears and forage.

Marazo™ may be applied by either ground, air, or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Northern corn leaf blight ( <i>Setosphaeria turcica</i> ) Northern corn leaf spot ( <i>Cochliobolus carbonum</i> ) Southern corn leaf blight ( <i>Cochliobolus heterostrophus</i> ) also known as Helminthosporium leaf blights ( <i>H. maydis</i> , <i>H. turcicum</i> , and <i>H. carbonum</i> )	2-4 fl. oz.	Apply Marazo™ for leaf blights when disease first appears and continue on a 7- to 14-day schedule. Use the low rate when disease pressure is low. Under heavy disease pressure or when conditions favor disease, apply the higher rate.
Rusts ( <i>Puccinia</i> spp.) Gray leaf spot ( <i>Cercospora zeae-maydis</i> ) Eye spot ( <i>Aureobasidium zeae</i> )	4 fl. oz.	Apply Marazo™ when disease first appears and continue on a 7- to 14-day schedule when conditions favoring disease persist. For best disease control, early applications at initial disease onset perform better.

## CRANBERRIES (OR, WA, WI Only)

#### Use Restrictions

- Do not apply more than 24 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.67 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (6 fl oz/A) or 6 applications per year when applying at the lowest rate (4 fl oz/A).
- Days between last application and harvest (PHI): 45 days.
- Do not use cranberry fields used for aquaculture of fish and crustaceans.
- Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Applicators should use care in making applications near non-target aquatic habitats.
- Do not apply to flooded crop.
- Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.

Marazo™ may be applied by either ground or air application in a minimum of 20 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Cottonball ( <i>Monilinia oxycocci</i> )	4-6 fl. oz.	Make the first application at leaf bud break. Make the second application 14 days later. Make the third application at early bloom and repeat again in 14 days. Under severe pressure, use the higher rate for control.

## FILBERTS (Hazelnuts)

#### Use Restrictions

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.9 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 6 applications per year when applying at the lowest rate (5 fl oz/A).
- Days between last application and harvest (PHI): 60 days.
- Do not graze livestock in treated areas or cut treated crop for feed.

Applications may be applied by either ground or air application in a minimum of 15 gals. per acre.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	5-8 fl. oz.	Begin applications when green leaf tissue becomes visible and continue at 14- to 21-day intervals. Under severe disease conditions, use the higher rate and shorter interval. <b>Note:</b> On certain varieties, Marazo™ applications may cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to Marazo™ treatments.

**GRASSES GROWN FOR SEED (ID, MN, NE, OR, and WA Only)****Use Restrictions**

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.9 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (4 fl oz/A).
- Do not feed hay cut within 20 days of the last application.
- Do not graze treated areas within 140 days of last application.
- Do not make more than 4 applications.
- Do not apply within 20 days of harvest (20-PHI) of seed.
- Do not apply to Bermudagrass grown for seed.

Marazo™ may be applied by ground or air application in a minimum of 10 gals. per acre, or by chemigation in sufficient volume to provide thorough coverage. Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Rusts ( <i>Puccinia</i> spp.) Powdery mildew ( <i>Erysiphe graminis</i> ) Selenophoma stem Eyespot ( <i>Selenophoma</i> spp.) Ergot Stem Diseases	4-8 fl. oz.	Apply Marazo™ when powdery mildew and <i>Selenophoma</i> infections and/or rust pustules are noticeable and increasing in number in late spring or early summer. Repeat at 14 to 21 day intervals. To maximize control under severe rust pressure, use the higher rate of 8 fl. oz. per acre 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 applications early in the growing season.

**MINT (Peppermint, Spearmint)****Use Restrictions**

- Do not apply more than 12 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.34 lb. ai propiconazole containing product per acre per year.
- Do not make more than 3 applications at 4 fl. oz. or 1 application at 8 fl. oz.
- Days between last application and harvest (PHI): 90 days.

Marazo™ may be applied by ground in a minimum of 20 gals. per acre in sufficient volume to provide thorough coverage. Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Rusts ( <i>Puccinia menthae</i> )	4 fl. oz.	Begin applications when plants are 2 to 4 inches high or when conditions become favorable for disease development. Continue on a 14-day interval as conditions warrant.

**BULB VEGETABLES**

**BULB ONIONS: Garlic Bulb, Onions Bulb, Shallot Bulb (Cultivars, varieties, and/or hybrids of these). See additional crops listed below.**

**GREEN ONIONS**

**Leek, Fresh Onion, Green Onion, Fresh Shallot, Leaves (Cultivars, varieties, and/or hybrids of these). See additional crops listed below.**

**Additional Bulb Onions: daylily, fritillaria, great-headed garlic, serpent garlic, lily, Chinese onion, pearl onion, potato onion**  
**Additional Green Onions: fresh chive leaves, fresh Chinese chive leaves, hosta elegans, fritillaria leaves, kurrat, Lady's leek, wild leek, beltsville bunching onion, macrostem onion, tree tops onion, welsh onion tops**

**Use Restrictions**

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 2 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (2 fl oz/A).
- Days between last application and harvest (PHI): 14 days on bulb onion types; no re-entry interval for green onion types.

Marazo™ may be applied by ground application in a minimum of 15 gals. per acre or air application in a minimum of 5 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Purple Blotch ( <i>Alternari porri</i> ) Suppression of Botrytis Leaf blight ( <i>Botrytis squamosa</i> )	4-8 fl. oz.	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.
	2-4 fl. oz. plus tank mix partner	In tank mix, apply 2-4 oz. of Marazo™ 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 higher rates when disease conditions are severe. To achieve optimum control use a wetting agent or a spreader-sticker.

**PARSLEY, FRESH AND DRIED LEAVES  
CILANTRO (CORIANDER), LEAVES**

**Use Restrictions**

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 5 applications per year when applying at the lowest rate (3 fl oz/A).
- Days between last application and harvest (PHI): 14 days.

Marazo™ may be applied by ground, air, or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Leaf Spot ( <i>Cercospora</i> spp.) Leaf Spot ( <i>Alternaria</i> spp.) Powdery Mildew ( <i>Erysiphe</i> spp.)	3-4 fl. oz.	Begin applications at first sign of disease and continue 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.

**PEANUTS**

**Use Restrictions**

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (4 fl oz/A) or 6 applications per year when applying at the lowest rate (2.5 fl oz/A).
- Days between last application and harvest (PHI): 14 days when using no more than 4 fl. oz. per acre: 21 days when using 8 fl. oz. per acre.
- Do not feed hay from treated fields to livestock if the high rate is used (8.0 fl. oz. per acre)

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Early leaf spot ( <i>Cercospora arachidicola</i> ) Late leaf spot ( <i>Cercosporidium personatum</i> ) Rust ( <i>Puccinia arachidis</i> ) Web Blotch ( <i>Phoma arachidicola</i> )	2.5 – 4 fl. oz. 4 fl. oz. 4 fl. oz. 4 fl. oz.	Apply Marazo™ beginning 35 to 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 specified application rates. Marazo™ also may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development. Marazo™ may be applied by ground, air or chemigation.
Southern Stem Rot ( <i>Sclerotium rolfsii</i> )		Apply Marazo™ according to one of the following schedules: A. Apply 4 fl. oz. of Marazo™ per acre 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, and repeat on a 14-day schedule. B. Apply 8 fl. oz. of Marazo™ per acre 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 to 4 weeks later. Irrigation: When applying Marazo™ in irrigation water for Southern Stem Rot Control, use a minimum of 0.25 to 0.5 inches of irrigation water per acre. 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 using Marazo™ via irrigation or directed ground application, additional methods should be used for leaf spot control.

## PECANS

### Use Restrictions

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.90 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (4 fl oz/A).
- Do not apply after shuck split.
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Marazo™ may be applied by ground or air application in a minimum of 20 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

Propiconazole 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 making the pesticide application. To determine whether your county has a bulletin, consult <http://www.epa.gov/espp/bulletins.htm>. Bulletins may also be available from local pesticide dealers, extension offices, or state pesticide agencies.

### Use Restrictions

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Downy Spot ( <i>Mycosphaerella caryigena</i> ) Liver Spot ( <i>Gnomonia caryae pv pecanae</i> ) Pecan Scab ( <i>Cladosporium caryigenum</i> ) Powdery Mildew ( <i>Microsphaera penicillata</i> ) Vein Spot ( <i>Gnomonia nerviseda</i> ) Zonate Leaf Spot ( <i>Cristulariella moricola</i> )	4-8 fl. oz.	<b>Pecan Scab:</b> Apply 4-8 fl. oz. per acre on a 14 day schedule during bud break and pre-pollination sprays. Apply 6-8 fl. oz. per acre during nut formation and cover sprays. Use higher rates when disease pressure is heavier. <b>Other listed foliar diseases:</b> Apply 4 fl. oz. per acre with other registered pecan products labeled for those mid to late season foliar diseases. Observe all directions, precautions and limitations for the other products.

## PINEAPPLE (HAWAII ONLY)

### Use Restrictions

- Do not apply more than 0.1125 lb. ai per 500 gals of water per year.
- Do not apply more than 1 application per year.
- Do not use treated crowns for food or feed.
- Do not graze while plant is growing.
- Do not graze tops until fruit is harvested.
- Dispose of used dip solution according to local, state and federal regulations.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Butt rot ( <i>Ceratocystis paradoxa</i> )	0.75 fl. oz. per 100 gals. of water (1:17,000)	Treatments may be made in either a cold or hot water dip. <b>Cold Water Dip:</b> Immerse crowns to give thorough wetting, remove, and allow to drain. <b>Hot Water Dip:</b> Maintain water temperature at 125°F (52°C). Soak crowns for 20 to 30 minutes, remove and allow to drain.

## PISTACHIOS

### Use Restrictions

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.90 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (4 fl oz/A).
- Days between last application and harvest: 60 days
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Marazo™ may be applied by ground or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Botryospheria Panicle and Shoot Blight ( <i>Botryospheria dothidea</i> )	5-8 fl. oz.	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. <b>NOTE:</b> Under certain conditions Marazo™ applications may cause smaller and/or greener leaves. Yields of pistachios displaying these characteristics have not been reduced due to Marazo™ treatments.

## RICE

### Use Restrictions

- Do not apply more than 12 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.34 lb. ai propiconazole containing product per acre per year.
- Do not apply more than 2 applications at 0.1688 lb. ai or more than 1 application at 0.2813 lb. ai per acre per year.
- Days between last application and harvest (PHI): 35 days Do not apply to stubble or ratoon crop rice.
- Do not use in rice fields where commercial farming of crayfish will be practiced.
- Do not drain water from treated rice fields into ponds used for commercial fish farming.
- Do not use water drained from treated fields to irrigate other crops.
- Do not release flood water within 7 days of an application.
- Not for use in the following counties in Arkansas: Cross, Lee, Mississippi, Poinsett, and St. Francis.
- Not for use in California.

Marazo™ must be applied by air only in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

Propiconazole 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 making the pesticide application. To determine whether your county has a bulletin, consult <http://www.epa.gov/espp/bulletins.htm>. Bulletins may also be available from local pesticide dealers, extension offices, or state pesticide agencies.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Aggregate sheath spot <i>(Rhizoctonia oryzae-sativa)</i> Black sheath rot <i>(Gaeumannomyces graminis)</i> Brown leaf spot <i>(Helminthosporium oryzae)</i> Kernel smut <i>(Tilletia barclayana)</i> Leaf smut <i>(Entyloma oryzae)</i> Narrow brown leaf spot <i>(Cercospora oryzae)</i> Sheath blight <i>(Rhizoctonia solani)</i> Sheath spot <i>(Rhizoctonia oryzae)</i> For disease suppression of: False smut <i>(Ustilagoideia Virens)</i> Stem Rot <i>(Sclerotium oryzae)</i>	6 to 10 fl. oz.	The timing of Marazo™ application will depend on disease severity, disease complex, and rice variety and growth stage. Consult local extension experts for local economic thresholds established for various rice varieties and diseases. Apply Marazo™ on either of the following schedules as an aerial spray in 5 to 10 gals. of water per acre: A. 6 fl. oz. per acre 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. Marazo™ 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. per acre 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. per acre of Marazo™ in a tank mix with registered fungicides for control of diseases of rice.
<b>WILD RICE (MN Only)</b> Helminthosporium leaf blight <i>(Helminthosporium spp.)</i> Brown Spot <i>(Bipolaris spp.)</i>	6-8 fl. oz.	Apply 6 fl. oz. per acre of Marazo™ at both booting and heading, or make a single application of 8 fl. oz. per acre at booting. Minimum re-application interval is 10 days.

## SORGHUM

### Use Restrictions

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not apply more than 8 fl. oz. (0.22 lb. ai propiconazole) of Marazo™ for sorghum harvested for forage.
- Do not exceed 4 applications per year.
- Days between last application and harvest (PHI): 30 days for forage; 21 days for grain and stover.
- Do not graze livestock or cut for green chop or silage within 30 days of application.

Marazo™ may be applied by ground application in a minimum of 15 gals. per acre or air application in a minimum of 10 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Ergot <i>(Claviceps sorghi)</i>	3-4 fl. oz.	Make first application at or just prior to flowering. Repeat on a 5- to 7-day interval. Apply up to four times.

## SOYBEANS

### Use Restrictions

- Do not apply more than 12 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.34 lb. ai propiconazole containing product per acre per year.
- Do not exceed 2 applications per year when applying at the highest rate (6 fl oz/A) or 3 applications per year when applying at the lowest rate (4 fl oz/A).
- Applications may be made up to growth stage R6.

Marazo™ may be applied by ground or air application in sufficient volume to provide thorough coverage.

Addition of an oil-based additive is recommended for improved coverage and penetration when applying by air.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Aerial Web Blight ( <i>Rhizoctonia solani</i> ) Anthracnose ( <i>Colletotrichum truncatum</i> ) Brown Spot ( <i>Septoria glycines</i> ) Frogeye Leaf Spot ( <i>Cercospora sojina</i> ) Soybean Rust ( <i>Phakopsora pachyrhizi</i> )	4-6 fl. oz.	Apply 5-6 fl. oz. per acre at the first appearance of Aerial web blight and repeat the application 14 to 21 days later. Under severe disease conditions use the higher rate and shorter interval. For control of other foliar diseases, apply 6 fl. oz. per acre at growth stage R3 (early pod set when pods are 1/8 to 1/4 inch long) and 14 to 21 days later at growth stage R5 (pod fill). Apply 4-6 fl. oz. per acre at first indication that soybean rust is in the area. For best control, preventative applications work best. Repeat on a 14 to 21 day interval using the higher rate and shorter interval when disease is present in field and incidence is less than 2% (2 plants in 100 infected). If incidence is greater than this or if disease is in mid canopy, control will not be acceptable. Scouting for rust 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. On certain varieties, Marazo™ applications may cause crinkled, smaller and/or greener leaves. Yields of dry beans displaying these characteristics have not been reduced due to Marazo™ treatments.

## STONE FRUIT: Apricots, cherries (sweet and tart), nectarines, peaches, plums, plumcot, prunes, and cultivars and/or hybrids of these.

### Use Restrictions

- Do not apply more than 20 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.56 lb. ai propiconazole containing product per acre per year.
- Do not exceed 5 applications per year.
- Marazo™ may be applied by ground or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.
- Days between last application and harvest (PHI): 0 days.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

For best control of stone fruit diseases, apply by ground application.

### Use Precautions

- Applications of Marazo™ 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 Marazo™ to Stanley plums earlier than 21 days before harvest.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Brown Rot Blossom Blight ( <i>Monilinia</i> spp.)	4 fl. oz.	Apply Marazo™ at early bloom stage. If disease pressure is low, a second application may be made as needed up through petal fall. Make a second application if disease pressure is high or for susceptible varieties at 75-100% bloom and make a third application at petal fall.
Fruit Brown Rot ( <i>Monilinia</i> spp.)	4 fl. oz.	Apply as needed with 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 two Marazo™ applications.
Cherry Leaf Spot ( <i>Blumeriella jaapii</i> ) Powdery Mildew ( <i>Podosphaera</i> spp.) Rust ( <i>Tranzschelia discolor</i> )	4 fl. oz.	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.

## STRAWBERRIES

(including low growing berries: bearberry, bilberry, cloudberry, muntries, partridgeberry)

### Use Restrictions

- Do not apply more than 16 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.45 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year.
- Days between last application and harvest (PHI): 0 days.

Marazo™ may be applied by ground application in a minimum of 20 gals. per acre or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Anthracnose ( <i>Colletotrichum acutatum</i> ) Leaf Spot ( <i>Cercospora fragariae</i> ) Powdery Mildew ( <i>Sphaerotheca macularis</i> ) Leaf Rust ( <i>Phraomidium potentillae</i> )	4 fl. oz.	Begin applications when disease levels are no more than 5%. Apply 4 fl. oz. per acre of Marazo™ 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.



## SUGARBEETS

### Use Restrictions

- Do not apply more than 12 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.34 lb. ai propiconazole containing product per acre per year.
- Do not exceed 3 applications per year.
- Days between last application and harvest: 21 days.

Marazo™ may be applied by ground, air or chemigation in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Leaf Spot ( <i>Cercospora beticola</i> ) Powdery Mildew ( <i>Erysiphe polygoni</i> )	4 fl. oz.	Begin applications at first sign of disease and repeat at 10 to 14 day intervals. 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.

## SUGARCANE

### Use Restrictions

- Do not apply more than 0.1125 lb. ai per 500 gals of water per year.
- Do not apply more than 0.67 lb ai propiconazole-containing product/A/year.
- Do not apply more than 1 application per year.
- Marazo™ may be applied within 30 days of harvest (30-day PHI).
- Do not use treated seed pieces for food or feed.
- Dispose of used dip solution according to local, state and federal regulations.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Pineapple disease ( <i>Ceratocystis paradoxa</i> )	0.75 fl. oz. per 100 gals. of water (1:17,000)	Apply Marazo™ to cut seed pieces. Treatment may be applied in one of the following methods: <b>Cold Water Dip:</b> Immerse seed pieces to give thorough wetting, remove, and allow to drain. <b>Hot Water Dip:</b> Maintain water temperature at 125°F (52°C). Soak the seed pieces for 20 to 30 minutes, remove, and allow to drain. <b>Conveyor Belt Treatment:</b> Treat seed pieces with Marazo™/water solution using in-line directed spray sufficient to wet cut ends.

**TREE NUTS: almond (see specific directions in ALMOND Section), beechnut, brazil nut, butternut, cashew, chestnut, chinquapin, filbert (see specific directions in FILBERT section), hickory, macadamia, pecan (see specific directions in PECANS section), walnut, Pistachios (see specific directions in PISTACHIO Section).**

### Use Restrictions

- Do not apply more than 32 fl. oz. per acre per year of Marazo™.
- Do not apply more than 0.90 lb. ai propiconazole containing product per acre per year.
- Do not exceed 4 applications per year when applying at the highest rate (8 fl oz/A) or 8 applications per year when applying at the lowest rate (4 fl oz/A).
- Days between last application and harvest (PHI): 60 days, with the exception of pecans (see specific directions in PECAN section of this label).
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Marazo™ may be applied by ground or air application in a minimum of 15 gals. per acre in sufficient volume to provide thorough coverage.

Marazo™ is most effective when applied and allowed to dry before a rainfall.

For best control of tree nut diseases, apply by ground application.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Foliar Diseases	4-8 fl. oz.	Apply Marazo™ at first sign of disease. Repeat on a 7 to 14 day interval.

## POST HARVEST USE

### PINEAPPLE

#### Use Restrictions

- Do not apply more than 4 fl. oz./100 gal. of Marazo™ as a post harvest treatment.

TARGET DISEASES	RATE OF PRODUCT PER ACRE	APPLICATION INSTRUCTIONS
Ceratocystis Butt rot ( <i>C. paradoxa</i> )	3-4 fl. oz./100 gal.	Apply 3 to 4 fl. oz. in 100 gal. of water or wax water emulsion after harvest. Fruit should be dipped or sprayed for thorough coverage and allowed to drain. Limit dipping time to no more than 3 minutes. Dip solution should be replaced with fresh dip solution after 200,000 lbs. of fruit have been treated. Fruit discarded from fresh fruit packing operations may be used for processing. Cannery wastes may be fed.

FL. OZ. PER ACRE OF Marazo™	LB. A.I. PER ACRE OF Marazo™	ACRES TREATED PER 1 GALLON OF Marazo™
2	0.056	64.0
4	0.1125	32.0
6	0.169	21.3
8	0.225	16.0
10	0.28	12.8
12	0.34	10.7
16	0.45	8.0
20	0.56	6.4
24	0.67	5.3
30	0.84	4.3
32	0.90	4.0

## STORAGE AND DISPOSAL

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

**STORAGE:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

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

### CONTAINER HANDLING:

**[For rigid, non-refillable containers (≤ 5 gallons):]** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration.

**[For rigid, non-refillable containers (> 5 gallons):]** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer container for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration.

**[For rigid, refillable containers (≥ 250 gallons and Bulk):]** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or 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.

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Uses of Marazo™ other than those specified on this label are not licensed or otherwise authorized through the purchase of this product and the use of this product for other purposes including research and/or experimental uses are expressly prohibited without the written consent of AgBiome Innovations™, Inc.

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