



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

May 15, 2025

**SENT BY EMAIL**

Tasha Lott  
tasha.lott@albaughllc.com  
PRIME SOURCE, A DIVISION OF ALBAUGH LLC

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Addition of ABN, marketing graphics, and revision to company name  
Product Name: PPZ 41.8 SELECT  
Admin Number: 89442-3  
EPA Receipt Date: 05/08/2025  
Action Case Number: 00655792

Dear Tasha Lott:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

The alternate brand name: ArmorTech PGR 113 II has been added to the registration. Our records have been updated accordingly.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Raven Crosby via email at [crosby.raven@epa.gov](mailto:crosby.raven@epa.gov).

Sincerely,

Signing Authority Name, Signing Authority Title  
FB, RD  
Office of Pesticide Programs

## NOTIFICATION

[MASTER LABEL]

89442-3

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/15/2025

PROPICONAZOLE	GROUP 3	FUNGICIDE
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## PPZ 41.8 Select

[FUNGICIDE]

Broad-spectrum fungicide for control of plant, turf and ornamental diseases

ACTIVE INGREDIENT:	% BY WT.
Propiconazole* .....	41.8%
OTHER INGREDIENTS**:	58.2%
TOTAL: .....	100.0%

\*CAS No. 60207-90-1

\*\*Contains petroleum distillates

Contains 3.6 lbs. of propiconazole per gallon.

## KEEP OUT OF REACH OF CHILDREN

## WARNING/AVISO

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

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

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED:	<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>
IF INHALED:	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
HOTLINE NUMBERS	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at <b>1-800-858-7378</b> , Mon.-Fri., 8:00 a.m. to 12:00 p.m. Pacific Time or your poison control center at <b>1-800-222-1222</b> .	
NOTE TO PHYSICIAN	
Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

[Optional referral statements when booklets and container labels are used:]

[See label booklet for [complete] [additional] [First Aid,] [Precautionary Statements,] [Directions For Use,] and [Storage and Disposal.]]

EPA Reg. No. 89442-3

EPA Est. No. \_\_\_\_\_

Net Contents: \_\_\_\_\_

## Manufactured For [By]:

Prime Source, a division of Albaugh, LLC

P.O. Box 2501525 NE 36<sup>th</sup> Street

10025 Hwy. 264 Alternate Ankeny, IA 50021

Middlesex, NC 27557

{Optional Graphics:}



## 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 sensitization reactions in certain individuals.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are polyethylene or polyvinyl chloride.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton  $\geq$  14 mils
- Shoes plus socks
- Protective eyewear such as goggles, face shield, or safety glasses

#### 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

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/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. 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 or rinsate.

## 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 in your State 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  $\geq$  14 mils
- Shoes plus socks
- Protective eyewear such as goggles, face shield, or safety glasses

#### PRODUCT INFORMATION

**PPZ 41.8 Select** is a broad-spectrum fungicide labeled for the control of many important plant diseases.

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

**Use Restriction:**

- Do not use **PPZ 41.8 Select** in greenhouses or as a tree injection.

**Integrated Pest Management**

**PPZ 41.8 Select** must 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 must be followed. Consult your local agricultural authorities for additional IPM strategies established for your area. **PPZ 41.8 Select** may be used in State Agricultural Extension advisory (disease forecasting) programs which specify application timing based on environmental factors favorable for disease development.

**RESISTANCE MANAGEMENT**

<b>PROPICONAZOLE</b>	<b>GROUP</b>	<b>3</b>	<b>FUNGICIDE</b>
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**PPZ 41.8 Select** is in the Group 3 class fungicides. **PPZ 41.8 Select** acts as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis by blocking demethylation. Because resistance development cannot be predicted, the use of this product must follow appropriate resistance management strategies. To delay fungicide resistance, use must be based on an IPM program that includes the following steps:

- Rotate the use of **PPZ 41.8 Select** or other Group 3 fungicides within a growing season sequence with different groups that control the same pathogens. Avoid application of more than 3 and consecutive sprays of **PPZ 41.8 Select** or other fungicides in the same group in a season.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance, contact your [Prime SourceAlbaugh](#), LLC representative. You can also contact your pesticide distributor or university extension specialist to report resistance.

**ROTATIONAL CROP INTERVALS**

Rotational Crops	Planting Time From Last PPZ 41.8 Select Application
Beans (Dry and Succulent), Brassica (Leafy Greens (Subgroup 58)), Bulb Vegetables, Carrots, Celery and Leaf Petioles (Subgroup 48), Cereals (Wheat, Barley, Rye, Triticale, Oats), Cilantro (Coriander) Leaves, Corn (Field, Seed, Pop, and Sweet), Dill, Garden Beets, Grasses Grown For Seed (Cool Season Grasses Only), Mint, Parsley (Fresh and Dried Leaves), Peanuts, Quinoa, Radish, Rapeseed (Canola (Subgroup 20A)), Rice (including Wild Rice), Sorghum, Soybeans, Strawberry and other Low-Growing Berry (Subgroup 13-07G), Sugar Beets, Sugarcane, and Watercress	0 Days
Buckwheat and Millet	12 Months
Alfalfa (if propiconazole rate does not exceed 0.22 lb. a.i./acre/year)	75 Days
All Other Crops Intended for Food, Grazing, or Feed	105 Days

Any crop listed and approved for use on this label has a 0 day plant back interval.

**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 areas. Avoid spray overlap, as crop injury may occur.

Air assisted or air blast sprayers move spray droplets into the canopy using a forced air stream. 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 **PPZ 41.8 Select** 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 must 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 specifications.

For more information on spray equipment and calibration, consult sprayer manufacturer's 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.

**PPZ 41.8 Select Alone:** Add ½ - ¾ of the required amount of water to the spray or mixing tank. With the agitator running, add the **PPZ 41.8 Select** to the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the **PPZ 41.8 Select** has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed.

**PPZ 41.8 Select + Tank Mixtures:** **PPZ 41.8 Select** is usually compatible with all tank mix partners listed on this label. To determine the physical compatibility of **PPZ 41.8 Select** 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 ½ - ¾ 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 **PPZ 41.8 Select** to the spray tank. Allow the **PPZ 41.8 Select** to completely disperse. Spray the mixture with the agitator running.

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.

#### Restriction:

- Do not mix **PPZ 41.8 Select** with Syllit® or crop injury may result.

### 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 per acre 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 **PPZ 41.8 Select** 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.**

**PPZ 41.8 Select**, 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, 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 **PPZ 41.8 Select** at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part **PPZ 41.8 Select**. **PPZ 41.8 Select** is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but must 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 **PPZ 41.8 Select** through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply  $\frac{1}{8}$  -  $\frac{1}{2}$  inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying **PPZ 41.8 Select** 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 **PPZ 41.8 Select** required to treat the area covered by the irrigation system.
- Add the required amount of **PPZ 41.8 Select** 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 **PPZ 41.8 Select** 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 **PPZ 41.8 Select** 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 **PPZ 41.8 Select** through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of **PPZ 41.8 Select** required to treat the area covered by the irrigation system.
- Add the required amount of **PPZ 41.8 Select** 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 the injection equipment after treatment is completed. Continue to operate the system until the **PPZ 41.8 Select** solution has cleared the last sprinkler head.

#### SPECIFIC DIRECTIONS FOR USE

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Almonds	Brown Rot Blossom Blight ( <i>Monilinia laxa</i> M. fructicola)	4-8	Apply <b>PPZ 41.8 Select</b> 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	Apply <b>PPZ 41.8 Select</b> beginning at bud break on a 7-14 day interval.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground or aerial application (a minimum of 15 gals./A).

#### Specific Use Restrictions:

- Do not apply more than 32 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.9 lb. a.i. propiconazole-containing product/A/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 within 60 days of harvest (60-PHI).
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Banana and Plantains	Black Sigatoka ( <i>Mycosphaerella fijiensis</i> )	3	<p>Apply <b>PPZ 41.8 Select</b> before disease symptoms appear at the onset of rainy season. Apply 3 fl. oz. of <b>PPZ 41.8 Select</b> in 10-20 gallons of water/A. Apply no more than 2 consecutive applications on a 21-25 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 for mist sprayer. A maximum of 4 applications for all other application types. 2 consecutive months of "triazole free" is required during the period of lower disease pressure.</p> <p><b>Mixing Procedures:</b></p> <p><b>Oil-in-Water Emulsion:</b></p> <ol style="list-style-type: none"> <li>1. Add the crop oil to the spray tank.</li> <li>2. Add the emulsifier (0.6 fl. oz./gal. of oil) and <b>PPZ 41.8 Select</b> to the spray tank and mix thoroughly for 5 minutes.</li> <li>3. Add water to the spray tank and mix thoroughly for 15 minutes.</li> <li>4. Maintain agitation.</li> </ol> <p><b>Oil Alone:</b></p>

			<ol style="list-style-type: none"> <li>1. Add crop oil to the spray tank.</li> <li>2. Add the <b>PPZ 41.8 Select</b> to the spray tank and mix thoroughly for 5 minutes.</li> <li>3. Maintain agitation.</li> </ol>
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**Specific Use Restrictions:**

- Do not apply more than 24 fl. oz. per acre of **PPZ 41.8 Select** during each growing season (this includes any pre-harvest sprays).
- Do not apply more than 3 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/year.
- Do not exceed 8 applications per year.
- Do not apply **PPZ 41.8 Select** within 100 yards of non-bagged bananas.
- Do not apply **PPZ 41.8 Select** on bananas unless they are protected by polyethylene bags.
- Do not apply **PPZ 41.8 Select** on plantains if the fruit present are not protected with polyethylene bags.
- Do not feed whole bananas and plantains to animals.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Beets, garden</b>	Leaf Spot ( <i>Cercospora beticola</i> ) Powdery Mildew ( <i>Erysiphe polygoni</i> )	3-4	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.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by ground, air, or chemigation.

**Specific Use Restrictions:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Berry, Caneberry Subgroup 13-07A</b> Blackberry Loganberry Red and Black Raspberry Wild Raspberry Cultivars, varieties, and/or hybrids of these. See additional crops below.	Mummyberry Disease ( <i>Monilinia vaccinii-corymbosi</i> )	6	Make first application of <b>PPZ 41.8 Select</b> 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.
	Leaf Spot and Stem Canker ( <i>Septoria albopunctata</i> ) Rust ( <i>Pucciniastrum vaccinii</i> )	6	Apply when conditions favor disease development. Repeat applications on a 4-week spray interval.
	Leaf and Cane Spot ( <i>Septoria rubi</i> )	6	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.
<b>Berry, Bushberry Subgroup 13-07B</b> Highbush Blueberry Lowbush Blueberry Highbush Cranberry Black Currant Red Currant Elderberry Gooseberry Lingonberry Native Currant Cultivars, varieties, and/or hybrids of these. See additional crops below.	Powdery Mildew ( <i>Microsphaera vaccinii</i> )	6	Apply <b>PPZ 41.8 Select</b> 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	Make first application any time prior to bloom and again after petal fall. If needed, repeat application just after harvest.
Low Growing Berries (See <b>Strawberries</b> section.)			

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground (a minimum of 5 gals./A) or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 30 fl. oz./A/year of **PPZ 41.8 Select**.

- Do not apply more than 6 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.84 lb. a.i. propiconazole-containing product/A/year.
- Do not exceed 5 applications per year.
- Do not apply within 30 days of harvest (30-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Carrots	Leaf Blights ( <i>Cercospora carotae</i> ) (suppression of <i>Alternaria dauci</i> )	4	Apply 4 fl. oz. of <b>PPZ 41.8 Select</b> when conditions favor disease development. Continue applications on a 7-10 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 plus chlorothalonil at 0.75 lb. a.i.	Apply 2 fl. oz. of <b>PPZ 41.8 Select</b> with 0.75 lb. a.i. of chlorothalonil/A. Begin applications when conditions favor disease development. Continue applications on a 7-10 day interval.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground (a minimum of 15 gals./A) or aerial application (a minimum of 5 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Celery and Leaf Petioles Subgroup</b> Celery Celery, Chinese Cardoon Celtuce Fennel, Florence Rhubarb Swiss Chard	Early Blight ( <i>Cercospora apii</i> ) Late Blight ( <i>Septoria apicola</i> )	4	Apply <b>PPZ 41.8 Select</b> on a 7 day schedule, either by ground or aerial application. If desired, <b>PPZ 41.8 Select</b> may be mixed with appropriate spreader/sticker.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground (a minimum of 10 gals./A) or aerial application (a minimum of 5 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/year.
- Do not exceed 4 applications per year.
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Cereals Wheat  See next section for other Cereals.	<b>Early Season Suppression of:</b> Powdery Mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight ( <i>Septoria tritici</i> ) Glume Blotch ( <i>Stagonospora nodorum</i> ) Tan Spot ( <i>Pyrenophora tritici-repentis</i> )	2-4	Apply <b>PPZ 41.8 Select</b> in the spring. Follow up with 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> Rust ( <i>Puccinia</i> spp.) Powdery Mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight ( <i>Septoria tritici</i> ) Glume Blotch ( <i>Stagonospora nodorum</i> ) Tan Spot ( <i>Pyrenophora tritici-repentis</i> ) Helminthosporium Leaf Blight ( <i>Drechslera tritici-repentis</i> ) Spot Blotch ( <i>Bipolaris sorokiniana</i> ) Net Blotch ( <i>Pyrenophora teres</i> )	4	Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when <b>PPZ 41.8 Select</b> 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-base adjuvant may improve the spray coverage and canopy penetration. <b>PPZ 41.8 Select</b> can be applied through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues.
	Foot Rot ( <i>Pseudocercospora</i> spp.)	4	Apply <b>PPZ 41.8 Select</b> plus half rates of other EPA registered fungicides such as Topsin® M. Apply at tillering, but before elongation has occurred.



	Fusarium Head Blight Suppression	4	Apply <b>PPZ 41.8 Select</b> at approximately 50% flowering. Addition of penetrating type of adjuvant may increase Fusarium head blight suppression.
<b>Application:</b> <b>PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied either by ground, air, or chemigation.			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 4 fl. oz./A/year of <b>PPZ 41.8 Select</b> if forage or hay will be harvested.</li> <li>Do not apply more than 4 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.22 lb. a.i. propiconazole-containing product/A/year.</li> <li>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).</li> <li>Do not apply within 7 days of harvest for forage or hay (7-day PHI).</li> <li>Do not apply after Feekes 10.5.4</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Cereals Barley Rye Triticale Oats	<b>Early Season Suppression of:</b> Powdery Mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight ( <i>Septoria tritici</i> ) Glume Blotch ( <i>Stagonospora nodorum</i> ) Tan Spot ( <i>Pyrenophora tritici-repentis</i> )	2-4	Apply <b>PPZ 41.8 Select</b> in the spring. Follow up with 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> Rust ( <i>Puccinia</i> spp.) Powdery Mildew ( <i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight ( <i>Septoria tritici</i> ) Glume Blotch ( <i>Stagonospora nodorum</i> ) Tan Spot ( <i>Pyrenophora tritici-repentis</i> ) Helminthosporium Leaf Blight ( <i>Drechslera tritici-repentis</i> ) Spot Blotch ( <i>Bipolaris sorokiniana</i> ) Barley Scald ( <i>Rhynchosporium secalis</i> ) Barley Stripe ( <i>Pyrenophora graminea</i> ) Net Blotch ( <i>Pyrenophora teres</i> )	4	Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when <b>PPZ 41.8 Select</b> 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-base adjuvant may improve the spray coverage and canopy penetration.  <b>PPZ 41.8 Select</b> can be applied up to 45 days prior to harvest.
	Foot Rot ( <i>Pseudocercospora</i> spp.)	4	Apply <b>PPZ 41.8 Select</b> plus half rates of other EPA registered fungicides such as Topsin® M. Apply at tillering, but before elongation has occurred.
	Fusarium Head Blight Suppression	4	Apply <b>PPZ 41.8 Select</b> at approximately 50% flowering. Addition of penetrating type of adjuvant may increase Fusarium head blight suppression.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by ground, air, or chemigation.

**Specific Use Restrictions:**

- Do not apply more than 8 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/year of **PPZ 41.8 Select** if forage or hay will be harvested.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.22 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 7 days of harvest for forage or hay (7-day PHI).
- Do not apply after Feekes 10.5.4

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Citrus (Non-Bearing)</b> Calamondin Citron Citrus Hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (Sour and Sweet) Pummelo Satsuma Mandarin	Greasy Spot ( <i>Mycosphaerella citri</i> )	6-8	Begin applications in June. Apply on 30-day interval through August.

Tangerine			
Including all cultivars and/or hybrids of these.			
<b>Application: PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied by either ground or aerial application (a minimum of 15 gals./A).			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 24 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 8 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/year.</li> <li>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).</li> <li>Do not apply to citrus that will bear harvestable fruit within 12 months.</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Corn</b> Field Seed Popcorn  <b>Sweet Corn</b>	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> , <i>H. carbonum</i> )	2-4	For leaf blights, apply <b>PPZ 41.8 Select</b> when disease first appears. Continue on a 7-14 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.
	Rust ( <i>Puccinia</i> spp.) Gray Leaf Spot ( <i>Cercospora zeae-maydis</i> ) Eye Spot ( <i>Aureobasidium zeae</i> )	4	Apply <b>PPZ 41.8 Select</b> when disease first appears. If conditions favorable for disease persist, continue on a 7-14 day schedule. For best disease control, early applications (at initial disease onset) perform better.

**Application: PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by ground, air, or chemigation.

**Specific Use Restrictions:**

**For Field Corn, Field Corn Grown for Seed, and Popcorn:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/year of **PPZ 41.8 Select** on field corn harvested for forage.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 30 days of harvest for forage, grain, and stover (30-day PHI).

**For Sweet Corn:**

- Do not apply within 14 days of harvest for ears (14-day PHI).
- Do not apply within 14 days of harvest for forage (14-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Cranberries</b> (Oregon, Washington, and Wisconsin only)	Cottonball ( <i>Monilinia oxycocci</i> )	4-6	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 higher listed rate for control.

**Application: PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground or aerial application (a minimum of 20 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 24 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 6 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.67 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 45 days of harvest (45-day PHI).
- Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.
- 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 must use care in making applications near non-target aquatic habitats.
- Do not apply to flooded crop.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
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<b>Filberts</b> (Hazelnuts)	Eastern Filbert Blight ( <i>Anisogramma anomala</i> )	5-8	<p>Begin applications when green leaf tissue becomes visible and continue on 14-21 days interval. Under severe disease conditions, use the higher listed rate and shorter interval.</p> <p><b>NOTE:</b> On certain varieties, <b>PPZ 41.8 Select</b> applications may cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to <b>PPZ 41.8 Select</b> treatments.</p>
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**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground or aerial application (a minimum of 15 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 32 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.9 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 60 days of harvest (60-day PHI).
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Grasses Grown for Seed</b> (Idaho, Minnesota, Nebraska, Oregon, and Washington only)	Rusts ( <i>Puccinia</i> spp.) Powdery Mildew ( <i>Erysiphe graminis</i> ) Selenophoma Stem Eyespot ( <i>Selenophoma</i> spp.) Ergot Stem Diseases	4-8	Apply <b>PPZ 41.8 Select</b> when powdery mildew infections, <i>Selenophoma</i> infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. Apply on a 14-21 days 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.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by ground, air (a minimum of 10 gals./A), or chemigation.

**Specific Use Restrictions:**

- Do not apply more than 32 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.9 lb. a.i. propiconazole-containing products/A/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 within 20 days of harvest (20-PHI) of seed.
- Do not feed hay cut within 20 days of the last application.
- Do not graze treated areas within 140 days of the last application.
- Do not apply to bermudagrass grown for seed.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Mint</b> Peppermint Spearmint	Rusts ( <i>Puccinia menthae</i> )	4	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.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground (a minimum of 20 gals./A) or aerial application (a minimum of 2 gals./A).

**Specific Use Restrictions:**

- Do not exceed 12 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.34 lb. a.i. propiconazole-containing products/A/year.
- Do not exceed 3 applications per year.
- Do not apply within 7 days of harvest (7-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Onions (Dry Bulbs)</b> Garlic Onions (Dry Bulb) Shallots (Dry Bulb)	Purple Blotch ( <i>Alternaria porri</i> ) Suppression of Botrytis Leaf Blight ( <i>Botrytis squamosa</i> )	4 - 8	Begin applications when conditions favor disease development and continue on a 7-10 day interval. Use the higher listed rate and shorter interval when disease conditions are severe.

<b>Onions (Green)</b> Green Onions Green Shallots Green Eschalots Japanese Bunching Onions Leeks Spring Onions Scallions  And/or cultivars or hybrids of these.		2 - 4 plus tank mix partner	Apply 2-4 fl. oz. of <b>PPZ 41.8 Select</b> 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 listed rate when disease conditions are severe. To achieve optimum disease control, use a wetting agent or spreader-sticker.
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**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground (a minimum of 15 gals./A) or aerial application (a minimum of 5 gals./A).

**Specific Use Restrictions:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/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). When applying 4 fl. oz./A, do not exceed 4 applications per year.
- Do not apply within 14 days of harvest on dry bulb onions (14-day PHI).
- **PPZ 41.8 Select** may be applied the day of harvest (0-day PHI) for green onion types.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Parsley, fresh and dried leaves</b>  <b>Cilantro (Coriander), leaves</b>	Leaf Spot ( <i>Cercospora</i> spp.) Leaf Spot ( <i>Alternaria</i> spp.) Powdery Mildew ( <i>Erysiphe</i> spp.)	3-4	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.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by ground, air, or chemigation.

**Specific Use Restrictions:**

- Do not apply more than 16 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/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).
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Peanuts</b>	Early Leaf Spot ( <i>Cercospora arachidicola</i> )	2.5-4	Apply <b>PPZ 41.8 Select</b> beginning 30-45 days after planting or at the first appearance of disease. Continue applications on a 10-14 day schedule. Under heavy disease pressure, use higher application rates. <b>PPZ 41.8 Select</b> also may be used in State Agricultural Extension advisory (disease forecasting) programs which specify application timing based on environmental factors favorable for disease development. <b>PPZ 41.8 Select</b> may be applied by ground, air, or chemigation.
	Late Leaf Spot ( <i>Cercosporidium personatum</i> ) Rust ( <i>Puccinia arachidis</i> ) Web Blotch ( <i>Phoma arachidicola</i> )	4	
	Southern Stem Rot ( <i>Sclerotium rolfsii</i> )		Apply <b>PPZ 41.8 Select</b> using one of the following schedules: A. Apply 4 fl. oz./A of <b>PPZ 41.8 Select</b> 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. B. Apply 8 fl. oz./A of <b>PPZ 41.8 Select</b> 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.  <b>Irrigation:</b> When applying <b>PPZ 41.8 Select</b> 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 <b>PPZ 41.8 Select</b> via irrigation or as a directed ground application, additional methods must be employed for leaf spot control.
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 8 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/year.</li> <li>Do not exceed 2 applications per year when applying at the highest rate (8 fl. oz./A) or 6 applications per year when applying at the lowest rate (2.5 fl. oz./A). When applying 4 fl. oz./A, do not exceed 4 applications per year.</li> <li>Do not apply within 14 days of harvest (14-day PHI) with low use rate (4 fl. oz./A).</li> <li>Do not apply within 21 days of harvest (21-day PHI) if using high use rate (8 fl. oz./A).</li> <li>Do not feed hay from treated fields to livestock if using high use rate (8 fl. oz./A).</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Pecans	Pecan Scab ( <i>Cladosporium caryigenum</i> ) Downy Spot ( <i>Mycosphaerella caryigena</i> ) Liver Spot ( <i>Gnomonia caryae</i> pv <i>pecanae</i> ) Vein Spot ( <i>Gnomonia nerviseda</i> ) Zonate Leaf Spot ( <i>Cristulariella moricola</i> ) Powdery Mildew ( <i>Microsphaera penicillata</i> )	4-8	<b>Pecan Scab:</b> 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 listed rates when disease pressure is heavier.  <b>Other Listed Foliar Diseases:</b> 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.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by 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>. Bulletins also may be available from local pesticide dealers, extension offices, or State pesticide agencies.

**Specific Use Restrictions:**

- Do not apply more than 32 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.9 lb. a.i. propiconazole-containing products/A/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 or within 45 days of harvest (45-day PHI), whichever comes first.
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Crop	Target Disease	Use Rate Fl. Oz. Product/100 Gals.	Application Instructions
Pineapple (Hawaii only)	Butt Rot ( <i>Ceratocystis paradoxa</i> )	0.75 fl. oz./100 gal. of water (1:17,000)	Treatments can 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 crown for 20-30 minutes, remove, and allow to drain.

**Specific Use Restrictions:**

- 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.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
Pistachios	Botryosphaeria Panicle and Shoot Blight ( <i>Botryosphaeria dothidea</i> )	5-8	Begin applications when green leaf tissue becomes visible and continue on a 14-21 days interval. Under severe disease conditions, use the higher listed rate and the shorter interval. <b>NOTE:</b> Under certain conditions <b>PPZ 41.8 Select</b> applications may cause smaller and/or greener leaves. Yields of pistachios displaying these characteristics have not been reduced due to <b>PPZ 41.8 Select</b> treatments.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground or aerial application (a minimum of 15 gals./A).



**Specific Use Restrictions:**

- Do not apply more than 32 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 8 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.9 lb. a.i. propiconazole-containing product/A/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).
- Do not apply within 60 days of harvest (60-day PHI).
- Do not graze livestock in treated areas or cut treated cover crop for feed.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Rice</b>	Sheath Blight ( <i>Rhizoctonia solani</i> ) Brown Leaf Spot ( <i>Helminthosporium oryzae</i> ) Narrow Brown Leaf Spot ( <i>Cercospora oryzae</i> ) Leaf Smut ( <i>Entyloma oryzae</i> ) Sheath Spot ( <i>Rhizoctonia oryzae</i> ) Kernel Smut ( <i>Tilletia barclayana</i> ) Aggregate Sheath Spot ( <i>Rhizoctonia oryzae-sativa</i> ) Black Sheath Rot ( <i>Gaeumannomyces graminis</i> )  <b>For Disease Suppression of:</b> False Smut ( <i>Ustilaginoidea virens</i> ) Stem Rot ( <i>Sclerotium oryzae</i> )	6-10	Timing of <b>PPZ 41.8 Select</b> 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.  <b>PPZ 41.8 Select</b> must 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. <b>PPZ 41.8 Select</b> provides best control of sheath blight when the first application is applied at disease appearance in the field. The first application is advised 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 fl. oz. rate is advised if greater than 10% of the tillers are infected with sheath blight. If disease reappears, use another registered fungicide for the second application.  <b>Tank Mix Option:</b> Apply 6 fl. oz./A of <b>PPZ 41.8 Select</b> in a tank mix with Quadris or other fungicides for control of rice diseases.
<b>Wild Rice</b> (Minnesota only)	Helminthosporium Leaf Blight ( <i>Helminthosporium</i> sp.) Brown Spot ( <i>Bipolaris</i> spp.)	6-8	Apply 6 fl. oz./A of <b>PPZ 41.8 Select</b> at both booting and heading, or make a single application of 8 fl. oz./A at booting. Minimum re-application interval is 10 days.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** must 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 <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:**

- Do not apply more than 12 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 10 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.34 lb. a.i. propiconazole-containing products/A/year.
- Do not exceed 1 application per year when applying at the highest rate (10 fl. oz./A) or 2 applications per year when applying at the lowest rate (6 fl. oz./A).
- Do not apply within 35 days of harvest (35-day PHI).
- Do not release flood water within 7 days of an application.
- 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.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Sorghum</b>	Ergot ( <i>Claviceps sorghi</i> )	3-4	Make the first application at or just prior to flowering. Repeat on a 5-7 day interval. Apply up to 4 times.
<b>Application:</b> <b>PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied by either ground (a minimum of 15 gals./A) or aerial application (a minimum of 10 gals./A).			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>• Do not apply more than 8 fl. oz. of <b>PPZ 41.8 Select</b> (0.22 lb. a.i. propiconazole) on sorghum harvested for forage.</li> <li>• Do not apply more than 4 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>• Do not apply more than 0.45 lb. a.i. propiconazole-containing product/A/year.</li> </ul>			

- Do not exceed 4 applications per year.
- Do not apply within 30 days of harvest (30-day PHI) for forage.
- Do not apply within 21 days of harvest (21-day PHI) for grain and stover.
- Do not graze livestock or cut for green chop or silage within 30 days of application.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Soybeans</b>	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	<p><b>Aerial Web Blight:</b> 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 listed rate and shorter interval.</p> <p><b>Other Foliar Diseases:</b> Apply 6 fl. oz./A at growth stage R3 (early pod set when pods are <math>\frac{1}{8}</math> - <math>\frac{1}{4}</math> inch long) and 14-21 days later at growth stage R5 (pod fill).</p> <p><b>Soybean Rust:</b> Apply 4-6 fl. oz./A at first indication that disease is in the area. For best control, preventive applications work best. Repeat on 14-21 day interval. Use higher listed 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 is in mid canopy, control will not be acceptable. Scouting for the 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.</p> <p>On certain varieties, <b>PPZ 41.8 Select</b> applications may cause crinkled, smaller and/or greener leaves. Yields of dry beans displaying these characteristics have not been reduced due to <b>PPZ 41.8 Select</b> treatments.</p>

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. **PPZ 41.8 Select** may be applied by either ground or aerial application. Addition of an oil-based additive is advised for improved coverage and penetration when applying by air.

**Specific Use Restrictions:**

- Do not apply more than 12 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 6 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.34 lb. a.i. propiconazole-containing product/A/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).
- Apply up to Stage R6.

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Stone Fruit Crop Group 12-12</b> Apricots Cherries, Sweet Cherries, Tart Nectarines Peaches Plums Plumcot Prunes  And cultivars and/or hybrids of these.	Brown Rot Blossom Blight ( <i>Monilinia</i> spp.)	4	Apply <b>PPZ 41.8 Select</b> 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.
	Fruit Brown Rot ( <i>Monilinia</i> spp.)	4	Apply as needed a maximum of 2 sprays during the pre-harvest period up to the day of harvest (0-day PHI). If high inoculums and severe disease conditions persist, apply another registered fungicide after the 2 <b>PPZ 41.8 Select</b> applications.
	Powdery Mildew ( <i>Podosphaera</i> spp.) Cherry Leaf Spot ( <i>Blumeriella jaapii</i> ) Rust ( <i>Tranzschelia discolor</i> )	4	Follow the Brown Rot Blossom Blight schedule. Make up to 2 additional applications on a 10-14 day interval from the end of petal fall to harvest.

**Application:** **PPZ 41.8 Select** is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. Stone fruit diseases are most effectively controlled by ground applications. **PPZ 41.8 Select** may be applied by ground or air (a minimum of 15 gals./A).

**Precaution:** Applications of **PPZ 41.8 Select** 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 **PPZ 41.8 Select** to Stanley plums earlier than 21 days prior to harvest.

**Specific Use Restrictions:**

- Do not apply more than 20 fl. oz./A/year of **PPZ 41.8 Select**.
- Do not apply more than 4 fl. oz./A/application of **PPZ 41.8 Select**.
- Do not apply more than 0.56 lb. a.i. propiconazole-containing product/A/year.
- Do not exceed 5 applications per year.
- **PPZ 41.8 Select** may be applied the day of harvest (0-day PHI).

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Strawberries and other Low Growing Berry Subgroup 13-07G, except Cranberry</b>	Anthrachnose ( <i>Colletotrichum acutatum</i> ) Leaf Spot ( <i>Cercospora fragariae</i> ) Powdery Mildew ( <i>Sphaerotheca macularis</i> ) Leaf Rust ( <i>Phragmidium potentillae</i> )	4	Begin applications when disease levels are no more than 5%. Apply 4 fl. oz./A of <b>PPZ 41.8 Select</b> 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.
<b>Application:</b> <b>PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied by either ground (a minimum of 20 gals./A) or aerial application (a minimum of 15 gals./A).			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 4 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/year.</li> <li>Do not exceed 4 applications per year.</li> <li><b>PPZ 41.8 Select</b> may be applied the day of harvest (0-day PHI).</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Sugar Beets</b>	Leaf Spot ( <i>Cercospora beticola</i> ) Powdery Mildew ( <i>Erysiphe polygoni</i> )	4	Begin applications at first sign of disease. Repeat on a 10-14 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.
<b>Application:</b> <b>PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied by ground, air, or chemigation.			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 12 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 4 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.34 lb. a.i. propiconazole-containing products/A/year.</li> <li>Do not exceed 3 applications per year.</li> <li>Do not apply within 21 days of harvest (21-day PHI).</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/100 Gals.	Application Instructions
<b>Sugarcane</b>	Pineapple disease ( <i>Ceratocystis paradoxa</i> )	0.75 fl. oz./100 gals. of water (1:17,000)	Apply <b>PPZ 41.8 Select</b> to cut seed pieces using 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 20-30 minutes, remove, and allow to drain. <b>Conveyor Belt Treatment:</b> Treat seed pieces with <b>PPZ 41.8 Select</b> water solution using in-line directed spray sufficient to wet cut ends.
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Dispose of dip solution according to local, State, and Federal regulations.</li> <li>Do not use treated seed pieces for food or feed.</li> </ul>			

Crop	Target Disease	Use Rate Fl. Oz. Product/A	Application Instructions
<b>Tree Nuts Crop Group 14-12</b> Almond (see specific directions) Beechnut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (see specific directions) Hickory Macadamia Pecan (see specific directions) Pistachios (see specific directions)	Foliar Diseases	4-8	Apply <b>PPZ 41.8 Select</b> at first sign of disease. Repeat on a 7-14 day interval.

Walnut			
<b>Application: PPZ 41.8 Select</b> is most effective when applied and allowed to dry before a rainfall. For best results, sufficient water volume must be used to provide thorough coverage. <b>PPZ 41.8 Select</b> may be applied by ground or aerial application (a minimum of 15 gals./A). Use ground applications for best control of tree nut diseases.			
<b>Specific Use Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 32 fl. oz./A/year of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 8 fl. oz./A/application of <b>PPZ 41.8 Select</b>.</li> <li>Do not apply more than 0.9 lb. a.i. propiconazole-containing products/A/year.</li> <li>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).</li> <li>Do not apply within 60 days of harvest (60-day PHI), except for pecans (see specific directions).</li> <li>Do not graze livestock in treated areas or cut treated cover crop for feed.</li> </ul>			

**POST-HARVEST USE**

Crop	Target Disease	Use Rate Fl. Oz. Product/100 Gals.	Application Instructions
Pineapple	Ceratocystis Butt Rot ( <i>C. paradoxa</i> )	3-4 fl. oz.	Apply 3 to 4 fluid ounces in 100 gallons of water or wax water emulsion after harvest. Fruit must be dipped or sprayed for thorough coverage and allowed to drain. Limit dipping time to no more than 3 minutes. Dip solution must 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.
<b>Specific Use Restriction:</b> <ul style="list-style-type: none"> <li>Do not apply more than 4 fl. oz. as a post-harvest treatment.</li> </ul>			

Fl. oz. of PPZ 41.8 Select/Acre	Lb. A.I./Acre	Acres Treated Per 1 Gallon PPZ 41.8 Select
2	0.056	64
4	0.1125	32
6	0.169	21.3
8	0.225	16
10	0.28	12.8
12	0.34	10.7
16	0.45	8
20	0.56	6.4
24	0.67	5.3
30	0.84	4.3
32	0.90	4

**TURF AND ORNAMENTAL USES INFORMATION**

**PPZ 41.8 Select** is a systemic fungicide for use on turfgrasses for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Laetisaria fuciformis*), pink patch (*Limonomyces roseipellis*), rust (*Puccinia graminis*), powdery mildew (*Erysiphe graminis*), stripe smut (*Ustilago striiformis* and *Urocystis agropyri*), summer patch (*Magnaporthe poae*), necrotic ring spot (*Leptosphaeria korrae*), spring dead spot (*Leptosphaeria korrae*, *Leptosphaeria narmari*, *Ophiosphaerella herpotricha*, *Gaeumannomyces graminis*), take-all patch (*Gaeumannomyces graminis*), leaf spot (*Bipolaris* spp., *Drechslera* spp.), gray leaf spot (*Pyricularia grisea*), pink snow mold (*Microdochium nivale*), Fusarium patch (*Fusarium nivale*), gray snow mold (*Typhula* spp.), yellow patch (*Rhizoctonia cerealis*), and zoysia patch (*Rhizoctonia solani*).

**PPZ 41.8 Select** also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews, rusts, leaf spots, scabs, and blights. Refer to the appropriate section for specified diseases and plants.

**PRECAUTION:**

- Bermudagrass can be sensitive to **PPZ 41.8 Select**.

**RESTRICTIONS:**

- Do not exceed 1.44 fl. oz. per 1,000 sq. ft. every 30 days on any variety of bermudagrass.
- Do not apply more than 1.79 lb. propiconazole a.i. per acre per application.
- Do not apply more than 7.2 lb. a.i. per acre per year of **PPZ 41.8 Select**.
- Do not exceed 4 applications per year when applying at the highest rate (63 fl. oz./A) or 32 applications per year when applying at the lowest rate (8 fl. oz./A).
- Minimum Application Interval: 14 days
- Do not use this product a tree injection treatment.
- Do not use this product in greenhouses.
- Do not graze animals on treated areas.

- Do not feed clippings from treated areas to livestock or poultry.
- Chemigation: Do not apply this product through any type of irrigation system.
- Florida: Do not apply this product to bermudagrass golf course greens when temperatures exceed 90°F.

## MIXING INSTRUCTIONS

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.

Fill the spray tank  $\frac{1}{2}$  -  $\frac{3}{4}$  full with water. Add the proper amount of **PPZ 41.8 Select** and then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

If **PPZ 41.8 Select** is tank mixed with other products, use the following sequence:

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of **PPZ 41.8 Select**, other chemicals to be used, and the water, before mixing in the spray tank.
2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
3. Fill the tank at least  $\frac{1}{2}$  full of clean water.
4. Add wettable powders to the tank first, allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank.
5. Add flowables or suspensions next.
6. Add **PPZ 41.8 Select** next.
7. Add emulsifiable concentrates last.
8. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

## Tank Mixes

For broader spectrum control, **PPZ 41.8 Select** can be tank mixed with other fungicides.

## TURFGRASS AND DICHONDRA DISEASE CONTROL

1. USE **PPZ 41.8 SELECT** IN A PREVENTATIVE DISEASE CONTROL PROGRAM.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For control of soil-borne diseases, **PPZ 41.8 Select** can be watered in after application.
6. Under conditions optimum for high disease pressure, use the higher listed rate and the shorter interval.
7. For optimum turf quality and disease control, use **PPZ 41.8 Select** in conjunction with turf management practices that promote good plant health and optimum disease control.
8. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
9. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

## Turfgrass – Specific Diseases, Rates, and Application Timing

Disease	Fl. Oz. per 1,000 Sq. Ft.	Fl. Oz. Per Acre	Application Interval/Timing	Application Instructions
<b>Dollar Spot</b> ( <i>Sclerotinia homoeocarpa</i> )	0.18	8.0	14 days	Apply when conditions are favorable for disease development.
	0.18	8.0	14 days	Tank mix with low label rate of a chlorothalonil that is EPA-registered for use on turfgrass.
	0.37	16	21-28 days	
	0.37-0.73	16-32	14-28 days	If using the 0.37-0.73 fl. oz./1,000 sq. ft. rate without tank mixing, make no more than 3 consecutive applications for dollar spot control before rotating to an alternate EPA-registered fungicide having a different mode of action.
<b>Anthracnose</b> ( <i>Colletotrichum graminicola</i> )	0.37-0.73	16-32	14-28 days	Apply when conditions are favorable for disease development. When disease pressure is high, use higher listed rates of <b>PPZ 41.8 Select</b> and shorter intervals. For broad-spectrum control, tank mix with a registered contact fungicide at the label rate.  If disease is present, mix 0.73 fl. oz. of <b>PPZ 41.8 Select</b> per 1,000 sq. ft. with the label rate of the above mentioned contact fungicides.
<b>Brown Patch</b> ( <i>Rhizoctonia solani</i> )	0.37-0.73	16-32	14-21 days	Begin applications in May or June before disease is present. Tank mix with a registered contact fungicide labeled for brown patch control at the label rate.



Disease	Fl. Oz. per 1,000 Sq. Ft.	Fl. Oz. Per Acre	Application Interval/Timing	Application Instructions
				Under conditions of high temperatures and high humidity, use the higher listed rates of <b>PPZ 41.8 Select</b> and shorter intervals.
<b>Powdery Mildew</b> ( <i>Erysiphe graminis</i> ) <b>Rust</b> ( <i>Puccinia graminis</i> )	0.37-0.73	16-32	14-28 days	Apply when conditions are favorable for disease development. If disease is present, use 0.73 fl. oz. of <b>PPZ 41.8 Select</b> per 1,000 sq. ft.
<b>Red Thread</b> ( <i>Laetisaria fuciformis</i> ) <b>Pink Patch</b> ( <i>Limonomyces roseipellis</i> )	0.37	16	14-21 days	Apply when conditions are favorable for disease development.
<b>Stripe Smut</b> ( <i>Ustilago striiformis</i> ) ( <i>Urocystis agropyri</i> )	0.37-0.73	16-32	Fall or Spring	Apply once in the fall after grass becomes dormant or in the early spring before grass starts to grow.
<b>Gray Leaf Spot</b> ( <i>Pyricularia grisea</i> )	0.37-0.73	16-32	14 days	Apply when conditions are favorable for disease development. If using the 0.37 fl. oz./1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate.
<b>Melting Out Leaf Spot</b> ( <i>Bipolaris</i> spp.) ( <i>Drechslera</i> spp.)	0.37-0.73	16-32	14 days	Under light to moderate pressure, apply <b>PPZ 41.8 Select</b> to reduce the severity of leaf spot and melting. For broad-spectrum disease control, tank mix the 0.37 fl. oz. <b>PPZ 41.8 Select</b> with a registered contact fungicide at the label rate.  Tank mix the 0.37-0.73 fl. oz./1,000 sq. ft. <b>PPZ 41.8 Select</b> rate with a registered contact fungicide at the label rate.
<b>Summer Patch, Poa Patch</b> ( <i>Magnaporthe poae</i> )	0.73 1.45	32 63	14 days 28 days	Apply <b>PPZ 41.8 Select</b> beginning in April. Use the 1.45 fl. oz./1,000 sq. ft. rate on a 28-day schedule and the 0.73 fl. oz./1,000 sq. ft. rate on a 14-day schedule.
<b>Take-All Patch</b> ( <i>Gaeumannomyces graminis</i> )	0.73-1.45	32-63	Spring and Fall	Apply <b>PPZ 41.8 Select</b> to reduce the severity of take-all patch. Make 1 to 2 fall applications in September and October or when night temperatures drop to 55 °F, and 1 to 2 spring applications in April and May, depending on local specifications.
<b>Spring Dead Spot</b> ( <i>Leptosphaeria korrae</i> , <i>Leptosphaeria narmari</i> , <i>Ophiosphaerella herpotricha</i> , <i>Gaeumannomyces graminis</i> )	1.45	63	30 days	Make 1-3 applications. For 1 application, apply in September or October. For multiple applications, begin sprays in August.
<b>Necrotic Ring Spot</b> ( <i>Leptosphaeria korrae</i> )	1.45	63	Fall or Spring	Apply in the fall and/or the early spring depending on local specifications.
<b>Snow Mold Gray</b> ( <i>Typhula</i> spp.) <b>Pink</b> ( <i>Microdochium nivale</i> )	0.73-1.45	32-63	Late Fall	Apply 1 application in the late fall before snow cover. Do not apply on top of snow. For optimum disease control, the 0.73 and 1.45 fl. oz. <b>PPZ 41.8 Select</b> rates must be tank mixed with chlorothalonil at label rates.
<b>Fusarium Patch</b> ( <i>Fusarium nivale</i> )	0.73-1.45	32-63	Fall – Early Spring	Apply when conditions are favorable for disease development.
<b>Yellow Patch</b> ( <i>Rhizoctonia cerealis</i> )	1.10-1.45	48-63	Late Fall	Apply 1 application in the late fall before snow cover. If using 1.10 fl. oz./1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate.
<b>Zoysia Patch</b> , Large patch of zoysia ( <i>Rhizoctonia solani</i> )	1.10-1.45	48-63	Early Fall	Make 1 application in the early fall (mid-September to mid-October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine optimum application timing for your area.

**Dichondra – Specific Disease, Rate, and Application Timing**

Disease	Fl. Oz. per 1,000 Sq. Ft.	Fl. Oz. Per Acre	Application Interval/Timing	Application Instructions
<b>Dichondra Rust</b> ( <i>Puccinia dichondrae</i> )	0.73	32	14-21 days	Apply when conditions are favorable for disease development.

### Establishment of Cool Season Turfgrass

**PPZ 41.8 Select** provides control of many diseases of turf, and its primary use is as a fungicide for use against the diseases listed on this label. As an additional benefit, **PPZ 41.8 Select** will improve the rate of establishment when it is applied to cool season grass seedlings or sod.

**New Seedlings:** Apply 0.35 fl. oz./1,000 sq. ft. at the 2 to 3-leaf stage of growth for faster root development and top growth.

**Sod:** Apply 0.35 fl. oz./1,000 sq. ft. 2-6 weeks before cutting for increased sod knitting and faster establishment after laying. Observe a 7 day re-treatment interval between applications.

### DISEASE CONTROL IN NURSERIES (FIELD) AND LANDSCAPE PLANTINGS

1. USE **PPZ 41.8 SELECT** IN A PREVENTATIVE DISEASE CONTROL PROGRAM. To determine the use directions for controlling a disease on an ornamental plant species, select the species in Table 1. The number in parentheses following the plant species refers you to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers you to the application regime in Table 3.
2. Allow spray to dry before overhead irrigation is applied.
3. Optimum benefit of **PPZ 41.8 Select** is obtained when used in conjunction with sound disease management practices.

### Product Instructions

**PPZ 41.8 Select** may be used at rates of 0.75-8.7 fl. oz./100 gals. water for control of diseases of ornamental plant species (see Tables 1, 2, and 3).

**NOTE:** For outdoor uses, you can apply up to 2.0 gallons of **PPZ 41.8 Select**/acre/crop/calendar year.

For general disease control in landscapes, apply 2.2-3.0 fl. oz./100 gals. water every 21 days. For best control, begin **PPZ 41.8 Select** applications before disease development.

**Note:** Plant tolerances to **PPZ 41.8 Select** have been found acceptable for the specific genera and species of plants listed under the **Directions for Use**. Other plant species may be sensitive to **PPZ 41.8 Select** and diseases other than those listed may not be controlled. Before using **PPZ 41.8 Select** on plants or for diseases that are not listed in the **Directions For Use**, test **PPZ 41.8 Select** on a small basis first. Do not apply **PPZ 41.8 Select** to African violets, begonias, Boston fern, or geraniums. Apply the specified rates for a particular type of disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to widespread use.

**Table 1. Ornamentals - Plant Species**

Numbers in parentheses refer to diseases controlled. See Table 2.

Herbaceous Ornamental	Woody Ornamental	Non-Bearing Fruits and Nuts (Nurseries and Landscape Plantings)
Calendula (4a) Carnation (5f) Chrysanthemum (2a) Delphinium (4a) English Ivy (3e) Gomphrena (3a) Impatiens (3a, 3b, 4a) Iris (5d) Marigold (3a) Monarda (4c) Phlox (4c) Snapdragon (5d) Sweet William ( <i>Dianthus barbatus</i> ) (3k) Zinnia (4c)	Amelanchier (4d) Ash (4c) Azalea (2c, 4b) Bayberry (3n) Camellia (3e) Cotoneaster (3i) Crabapple (3c, 3q, 4c, 5a) Crape Myrtle (4a) Dogwood (3h, 4c) Douglas Fir (5b) Elm (4c) Euonymus (3e, 4c) Hawthorn (5a) Holly (3r) Juniper (1a) Lilac (4c) Linden (3e, 3b, 4b) Magnolia (3e, 4b) Maple (3e, 4f) Oaks (3p) Pines (1b, 1c) Poplars (5b) Pyracantha (3o) Red Tip Photinia (3i) Rhamphiolepis (3e, 3i) Rhododendron (2c, 3n) Roses (Outdoor Use Only) (3g, 4e, 5c) Shasta Fir (5e) Sweetgum (3b, 3c, 3n) Sycamore (3e) Tulip Tree (3e, 4a) Wax Myrtle (3n)	Apple (3q, 4d, 5a) Bartlett Pear (3q, 4c, 5a) Cherry (2b, 3d) Citrus (3m) Nectarine (2b) Peach (2b) Pecan (3b, 3c, 3f, 3l, 3n, 4e) Plum (2b) Walnut (3j)

**Table 2. Diseases**

Letters in brackets refer to application regimes. See Table 3.

1. Conifer Blights
  - a. *Phomopsis juniperovora* (Phomopsis Blight) [B]
  - b. *Sirococcus strobilinus* (Tip Blight) [D]
  - c. *Sphaeropsis sapinea* (Diplodia Tip Blight) [B]
2. Flower Blight
  - a. *Ascochyta chrysanthemi* (Ray Blight) [C]
  - b. *Monilinia* spp. [A]
  - c. *Ovulinia* spp. [B]
3. Leaf Blights/Spots
  - a. *Alternaria* spp. [B]
  - b. *Cercospora* spp. (Brown Leaf Spot) [C]
  - c. *Cladosporium* spp. (Scab) [C]
  - d. *Coccomyces hiemalis* [A]
  - e. *Colletotrichum* spp. [B]
  - f. *Cristulariella* spp. (Zonate Leaf Spot) [C]
  - g. *Diplocarpon rosae* (Blackspot) [B]
  - h. *Discula* spp. (Anthracnose) [A]
  - i. *Fabraea maculata* (syn. *Entomosporium maculata*) [B]
  - j. *Gnomonia leptostyla* (Anthracnose) [C]
  - k. *Heterosporium echinulatum* [B]
  - l. *Mycosphaerella caryigena* (Downy Spot) [C]
  - m. *Mycosphaerella fructicola* (Greasy Spot) [E]
  - n. *Septoria* spp. (Leaf Scorch) [C]
  - o. *Spilocaea pyracanthae* [B]
  - p. *Tubakia dryina* [D]
  - q. *Venturia inaequalis* (Scab) [A]
  - r. *Rhizoctonia web blight* [B]
4. Powdery Mildew
  - a. *Erysiphe* spp. [B]
  - b. *Microsphaera* spp. [C]
  - c. *Oidium* spp. [B]
  - d. *Podosphaera* spp. [B]
  - e. *Sphaerotheca pannosa* [B]
  - f. *Phyllactinia* spp. [B]
5. Rust
  - a. *Gymnosporangium juniperi-virginianae* [A]
  - b. *Melampsora occidentalis* [D]
  - c. *Phragmidium* spp. [B]
  - d. *Puccinia* spp. [B]
  - e. *Pucciniastrum goeppertianum* [D]
  - f. *Uromyces dianthi* [B]

**Table 3. Application Regimes**

- A. Mix 0.75-1.5 fl. oz. of **PPZ 41.8 Select** in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-21 days during the period of primary infection. If disease is present, tank mix with an EPA-registered contact fungicide. For flower blight, apply **PPZ 41.8 Select** when there is 5-10% bloom and again at 70-100% bloom. For dogwoods, apply the 0.75-1.5 fl. oz. rate every 14 days, or apply 3 fl. oz. of **PPZ 41.8 Select** every 28 days.
- B. Mix 1.8-3.0 fl. oz. of **PPZ 41.8 Select** in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply as needed, beginning when conditions are favorable for disease development. For blackspot, apply with a registered contact fungicide labeled for blackspot. For Calendula, apply every 30 days. For diplodia tip blight, make 3 applications every 14 days prior to major period of infection. For juniper phomopsis blight, make first application as soon as junipers start to grow, and repeat the applications every 14-21 days during periods of active growth.
- C. Mix 3-4.5 fl. oz. of **PPZ 41.8 Select** in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 30 days, beginning when conditions are favorable for disease development. For pecans, apply the 12 fl. oz. rate beginning at bud break. Apply 3 times on 14-day intervals. For walnuts, apply 3 fl. oz. at 14-21 day intervals. For ray blight, apply 4.5 fl. oz. at 7-day intervals or 7.5 fl. oz. at 14-day intervals. For impatiens, bayberry, linden, magnolia, sweetgum and wax myrtle, the maximum use rate is 8 fl. oz.
- D. Mix 6 fl. oz. of **PPZ 41.8 Select** in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-28 days, beginning when conditions are favorable for disease development. For Douglas fir needle rust, apply once in May. For tip blight, initial application is in mid-late winter, and apply 3 times at 2-month intervals.
- E. Mix 7.5-8.7 fl. oz. of **PPZ 41.8 Select** in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply during June to August time period.

**Restriction:** To avoid possible illegal residues, do not apply to apple, Bartlett pear, cherry, citrus, nectarine, peach, pecan, plum, or walnut trees that will bear harvestable fruit within 12 months.

## 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 HANDLING:**

**[(Nonrefillable container ≤ 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 for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**[(Nonrefillable ≥ 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 for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**[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 a 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

## CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**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.

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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Prime Source, [a division of Albaugh, LLC](#) or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Prime Source, [a division of Albaugh, LLC](#) and Seller harmless for any claims relating to such factors.

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