UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 22, 2019

Jessica Fernandez
Registration Manager
Bayer CropScience LP
2 TW Alexander Drive
PO Box 12014
Research Triangle Park, NC 27709

Subject: PRIA Label Amendment – Addition to label of new use of prothioconazole on Crop Subgroup 20A
Product Name: Proline 480 SC Fungicide
EPA Registration Number: 264-825
Application Date: 6/15/2017
Decision Number: 530919

Dear Ms. Fernandez:

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

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

2. You are required to comply with the data requirements described in the DCI identified below:

    a. Prothioconazole GDCI-113961-1613

    You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

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

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

Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). If you have any questions, please contact Lindsay Roe by phone at 703-347-0506, or via email at roe.lindsay@epa.gov.
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Sincerely,

C J Giles-Parker

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

Enclosure -stamped "accepted" label

PROTHIOCONAZOLE	GROUP	3	FUNGICIDE

PROLINE® 480 SC Fungicide

ABN: PTZ 480 ST; Redigo 480

For control of specified diseases on listed crops.

ACTIVE INGREDIENT: Prothioconazole, 2-[2-(1-Chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3*H*-1,2,4-triazole-3-thione	41.0%
OTHER INGREDIENTS:	59.0%
TOTAL:	100.0%

Contains 4 pounds Prothioconazole per gallon

EPA Reg. No. 264-825 **EPA Est.**

KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

Please refer to [back panel] [booklet] for additional precautionary statements and directions for use. [Note to reviewer: Location of additional precautionary statements and directions for use will vary between those listed, depending on container type/size.]

FIRST AID

IF SWALLOWED:	• Immediately call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF INHALED:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. **Have the product container or label with you when calling a poison control center or doctor or going for treatment.**	
NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARD (TO HUMANS AND DOMESTIC ANIMALS)
CAUTION

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

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

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

Engineering Control Statements

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/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 product is toxic to estuarine/marine invertebrates, and freshwater/estuaries/marine aquatic plants. 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.

Prothioconazole-desthio (a degradate of prothioconazole) is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Drift and runoff are hazardous to aquatic organisms in water adjacent to treated areas. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 and notification to workers (as applicable). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

PRODUCT INFORMATION

PROLINE® 480 SC Fungicide is a broad-spectrum systemic fungicide for the control of Ascomycetes, Basidiomycetes and Deuteromycetes diseases in a variety of crops including barley, buckwheat, bushberry subgroup, low growing berry subgroup (except strawberry), corn, cotton, cucurbit vegetables, dry shelled pea and bean crop subgroup, millet, oats, peanuts, rapeseed subgroup 20A (including canola and *Brassica carinata*), rice, rye, soybean, sugar beets, triticale, wheat; conifer and hardwood nursery seeds and seedlings. Under conditions conducive to extended infection periods or high disease pressure, additional fungicide applications beyond the number allowed by this label may be needed. Under these conditions use another fungicide registered for the crop/disease. Equipment must be properly calibrated before use.

FUNGICIDE RESISTANCE MANAGEMENT (FRAC) RECOMMENDATIONS

For resistance management, PROLINE 480 SC Fungicide contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to PROLINE 480 SC Fungicide and other Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of PROLINE 480 SC Fungicide or other Group 3 fungicides within a growing season sequence with different groups that control the same pathogens.
- 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/bacterial 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 Bayer CropScience at 1-866-99BAYER (1-866-992-2937). You can also contact your pesticide distributor or university extension specialist to report resistance.

Spray Equipment/Volumes

PROLINE 480 SC Fungicide may be applied by either ground, aerial and/or chemigation application equipment. Refer to the USE DIRECTIONS FOR SPECIFIC CROPS section of this label for approved applications for each crop.

Apply in a minimum of 10 gallons of spray solution per acre by ground sprayer. Apply in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment unless stated differently elsewhere in this label. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied. If necessary, increase the spray volume per acre for complete crop coverage.

Mixing Procedures

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.

Prepare no more spray mixture than is necessary for the immediate operation. Thoroughly clean spray equipment before using this product. Maintain maximum agitation throughout the spray operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to the previously treated area or dispose of the rinsate according to local regulations.

PROLINE 480 SC Fungicide Alone: Add ½ of the required amount of water to the mix tank. With the agitator running, add the PROLINE 480 SC Fungicide to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the product has completely and uniformly dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

PROLINE 480 SC Fungicide + Tank-Mix Partners: Add ½ of the required amount of water to the mix tank. Start the agitator running before adding any of the tank-mix partners. In general, tank-mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank-mix partner to become fully and uniformly dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

When using PROLINE 480 SC Fungicide in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank-mix partner, including PROLINE 480 SC Fungicide. Allow the water-soluble packaging to completely disperse before adding any other tank-mix partner to the tank.

If using PROLINE 480 SC Fungicide in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations; which appear on the tank-mix product label. No label dosage rate must be exceeded, and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product that prohibits such mixing. Tank mixtures or other applications of products are permitted only in those states in which the products are registered.

PROLINE 480 SC Fungicide is compatible with most insecticide, fungicide, herbicide, and foliar nutrient products. However, the physical compatibility of PROLINE 480 SC Fungicide with tank-mix partners should be tested before use. To determine the physical compatibility of PROLINE 480 SC Fungicide with other products, use a jar test, as described below.

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 liquids, 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. For further information, contact your local Bayer CropScience representative.

The crop safety of all potential tank mixes including additives and other pesticides on all crops has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop should be confirmed. To test for crop safety, apply PROLINE 480 SC Fungicide to the target crop in a small area and in accordance with label instructions for the target crop.

Soilborne/Seedling Disease Control

PROLINE 480 SC Fungicide can provide control of certain soilborne/seedling diseases when applied as an in-furrow application at time of planting or as a banded application applied over the row at time of planting and up to row closure on certain crops. Refer to the USE DIRECTIONS FOR SPECIFIC CROPS section of the label to determine which crops contain recommendations for in-furrow and/or banded applications and for the optimal timings, rates and band widths of these applications.

In-Furrow Application

- Apply PROLINE 480 SC Fungicide as an in-furrow application in 2.5 to 20 gallons of water at planting.
- Mount the spray nozzle such that the spray is directed into the furrow just before the seeds are covered.

Banded Application

- Apply PROLINE 480 SC Fungicide as a directed spray to the soil, using single or multiple nozzles which can be adjusted to provide uniform coverage of the lower stems and the soil surface surrounding the plants.

Rate per 1000 Row Feet	RATE OF PROLINE 48O SC FUNGICIDE FOR IN-FURROW AND BANDED APPLICATIONS (fl oz per acre)								
fl oz product	15" rows	20" rows	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
0.075	2.61								
0.100	3.48	2.61							
0.125	4.36	3.27	2.97						
0.150	5.23	3.92	3.56	2.61					
0.175	6.10	4.57	4.16	3.05	2.86	2.69			
0.200	6.97	5.23	4.75	3.48	3.27	3.07	2.90	2.75	2.61
0.225		5.88	5.35	3.92	3.68	3.46	3.27	3.10	2.94
0.250		6.53	5.94	4.36	4.08	3.84	3.63	3.44	3.27
0.275			6.53	4.79	4.49	4.23	3.99	3.78	3.59
0.300				5.23	4.90	4.61	4.36	4.13	3.92
0.325				5.66	5.31	5.00	4.72	4.47	4.25
0.350				6.10	5.72	5.38	5.08	4.81	4.57
0.375				6.53	6.13	5.77	5.45	5.16	4.90
0.400				6.97	6.53	6.15	5.81	5.50	5.23
0.425					6.94	6.53	6.17	5.85	5.55
0.450						6.92	6.53	6.19	5.88
0.475							6.90	6.53	6.21
0.500								6.88	6.53
0.525									6.86
0.543									7.10

Aerial Application: Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply directly to humans or animals.

Chemigation Application: Apply PROLINE 480 SC Fungicide through irrigation equipment only to crops for which chemigation is specified on this label.

PROLINE 480 SC Fungicide alone or in combination with other pesticides, which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only through center pivot, solid set, drip, linear, or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system. Illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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 PROLINE 480 SC Fungicide through center pivot systems because of non-uniform application.

Determine the size of the area to be treated. Determine the time required to apply 1/8-1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying PROLINE 480 SC Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity. Using water, determine the injection pump output when operated at normal line pressure. Determine the amount of PROLINE 480 SC Fungicide required to treat the area covered by the irrigation system. Add the required amount of PROLINE 480 SC Fungicide and sufficient water to meet the injection time requirements to the solution tank. Make sure the system is fully charged with water before starting injection of the PROLINE 480 SC Fungicide solution. Time the injection to last at least as long as it takes to bring the system to full pressure. Maintain constant solution tank agitation during the injection period. Continue to operate the system until the PROLINE 480 SC Fungicide solution has cleared the sprinkler head.

Solid Set and Moving Wheel Irrigation Equipment

When applying PROLINE 480 SC Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Determine the amount of PROLINE 480 SC Fungicide required to treat the area covered by the irrigation system. Add the required amount of PROLINE 480 SC Fungicide into the same quantity of water used to calibrate the injection period. Operate the system at the same pressure and time interval established during the calibration. Stop injection equipment after treatment is completed. Continue to operate the system until the PROLINE 480 SC Fungicide solution has cleared the last sprinkler head.

Using Water from Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Adjuvants: PROLINE 480 SC Fungicide is recommended to be used with a registered non-ionic surfactant at the lowest recommended labeled rate for most crops. Refer to the individual crop recommendations for those specific uses where a surfactant is not recommended.

Recommendations to Avoid Spray Drift

Do not make applications when conditions favor drift beyond the target application area. When drift may be a problem, take measures to reduce drift, including:

1. Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 15 mph or greater. If non-target crops are located downwind, use caution when spraying if wind is present. Do not spray if winds are gusty.
2. Use caution when conditions are favorable for drift (high temperatures, drought, and low relative humidity).
3. Do not apply when temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.

ROTATIONAL RESTRICTIONS

Treated areas may be replanted with any crop specified on this label as soon as practical after last application. For crops not listed on this label, do not plant back within 30 days of last application.

USE DIRECTIONS FOR SPECIFIC CROPS

PROLINE 480 SC Fungicide provides control or suppression of many important diseases of barley, buckwheat, bushberry subgroup, low growing berry subgroup (except strawberry), corn, cotton, cucurbit vegetables, dry shelled pea and bean crop subgroup, rice, millet, oats, peanuts, rapeseed subgroup 20A (including canola and *Brassica carinata*), rye, soybean, sugar beets, triticale, wheat; conifer and hardwood nursery seeds and seedlings. When reference is made to disease suppression, suppression can mean either erratic control from good to fair or consistent control at a level below that obtained with the best commercial disease control products.

<table>
<tr><th colspan="3">APPLICATION DIRECTIONS</th></tr>
<tr><th>CROP</th><th>DISEASE CONTROLLED</th><th>RATE OF PROLINE 480 SC Fungicide</th></tr>
<tr><td rowspan="3">Barley</td><td>Fusarium Head Blight (Fusarium spp.)
(Suppression Only)</td><td>5.0 - 5.7 fl oz/A
(0.156 - 0.178 lbs ai/A)</td></tr>
<tr><td>Leaf and Stem Diseases
Net Blotch (Pyrenophora teres)
Powdery Mildew (Blumeria graminis f. sp. Hordei)
Rusts (Puccinia spp.)
Scald (Rhynchosporium secalis)
Spot Blotch (Cochliobolus sativus)</td><td>2.8 - 4.3 fl oz/A
(0.088 - 0.134 lbs ai/A)</td></tr>
<tr><td colspan="2">PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment.

For aerial applications made prior to heading (prior to Feekes Growth Stage 10.5), apply a minimum of 2 gpa spray solution. For aerial applications made at the heading growth stage or later, apply in a minimum of 5 gpa spray solution. Chemigation use is allowed only for applications made prior to heading.

Fusarium Head Blight (Suppression Only): The optimal time to apply PROLINE 480 SC Fungicide is as a preventative foliar spray when barley heads on the main stem are fully emerged (~ Feekes Growth Stages 10.5). Spray equipment must be set to provide good coverage to barley heads. For thorough coverage of barley head using ground application equipment, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure directions suggested by the manufacturer.

Leaf and Stem Diseases: Apply PROLINE 480 SC Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves or stems. Barley fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.</td></tr>
<tr><td colspan="3">Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. Repeat applications using a 14-day spray interval if conditions remain favorable for continued or increasing disease development. For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with PROLINE 480 SC Fungicide.

A maximum of 9.37 fl oz (0.293 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 32 days of harvest.</td></tr>
</table>

APPLICATION DIRECTIONS		
CROP	**DISEASES CONTROLLED**	**RATE OF PROLINE 480 SC FUNGICIDE**
Bushberry subgroup (Subgroup 13-07B): Aronia berry; blueberry (highbush and lowbush); Chilean guava; highbush cranberry; currant (black, buffalo, and red); elderberry; European barberry; gooseberry; edible honeysuckle; huckleberry; jostaberry; juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; and cultivars, varieties, and/or hybrids of these.	Septoria leaf spot (*Septoria* spp.) Monilinia blight (*Monilinia vaccinii-corymbosi*) Valdensinia leaf spot (*Valdensinia heterodoxa*) Leaf rust (*Thekopsora minima*) Anthracnose (*Colletotrichum gloeosporioides*) Botrytis blight (*Botrytis cinerea*) Phomopsis canker and twig blight[1] *(Phomopsis vaccinii)* Alternaria fruit rot[1] (*Alternaria* spp.) White pine blister rust[1] *(Cronartium ribicola)*	5.7 fl oz/A (0.178 lbs ai/A)
	PROLINE 480 SC Fungicide may be applied by either ground or chemigation application equipment. Apply PROLINE 480 SC Fungicide at the first sign of disease.	
Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 7- to 10-day spray interval if conditions remain favorable for continued or increasing disease development. A maximum of 11.4 fl oz (0.356 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 7 days of harvest.		
[1 Not Registered for use in California.]		

<table>
<tr><th colspan="3">APPLICATION DIRECTIONS</th></tr>
<tr><th>CROP</th><th>DISEASES CONTROLLED</th><th>RATE OF PROLINE
480 SC FUNGICIDE</th></tr>
<tr><td rowspan="2">Low growing berry subgroup, except strawberry[1]:
Bearberry; bilberry; cloudberry; cranberry; muntries; partridgeberry; and cultivars, varieties, and/or hybrids of these</td><td>Fruit rot:
Coleophoma empetri
Glomerella cingulata
Phyllosticta vaccinii
Physalospora vaccinii
Allantophomopsis lycopodina
Allantophomopsis cytisporea
Fusicoccum putrefaciens
Penicillium spp.
Phomopsis vaccinii
Colletotrichum acutatum
Botrytis spp.
Monilinia spp.

Valdensinia leaf spot
(Valdensinia heterodoxa)</td><td>5.0 fl oz/A
(0.156 lbs ai/A)</td></tr>
<tr><td colspan="2">PROLINE 480 SC Fungicide may be applied by either ground or chemigation application equipment. For best control of fruit rots begin applications at early bloom. Make a second application of PROLINE 480 SC Fungicide or another approved fungicide 7-10 days later.</td></tr>
<tr><td colspan="3">Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 7- to 10-day spray interval if conditions remain favorable for continued or increasing disease development.

A maximum of 10.0 fl oz (0.313 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 45 days of harvest.</td></tr>
<tr><td colspan="3">[1 Not Registered for use in California.]</td></tr>
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APPLICATION DIRECTIONS		
CROP	**DISEASES CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Buckwheat **Millet, pearl** **Millet, proso** **Oats** **Rye**	Rusts (*Puccinia* spp.) Glume Blotch (*Stagonospora nodorum*) Head Blight or Scab (*Fusarium graminearum*) – Suppression Powdery Mildew (*Erysiphe graminis*) Scald (*Rynchosporium secalis*) Speckled Blotch (*Septoria avenae; Septoria tritici*) Spot Blotch (*Bipolaris sorokiniana*) Tan Spot or Yellow leaf Spot (*Pyrenophora tritici-repentis*)	5 - 5.7 fl oz/A (0.156 to 0.178 lbs ai/A)
	Apply PROLINE 480 SC Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves or stems. Fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.	
Other Requirements: Apply only one application per year. Applications may be made by ground or aerial spray equipment. A maximum of 5.7 fl oz (0.178 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 30 days of harvest.		

APPLICATION DIRECTIONS			
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**	**APPLICATION TIMING**
Corn (field corn, field corn grown for seed and popcorn)	Anthracnose Leaf Blight (*Colletotrichum graminicola*) Eye spot (*Aureobasidium zeae*) Gray leaf spot (*Cercospora zeae-maydis*) Northern Corn Leaf Blight (*Setosphaeria turcica*)[1] Northern Corn Leaf Spot (*Cochliobolus carbonum*) [1] Rust (*Puccinia* spp.) Southern Corn Leaf Blight (Cochliobolus heterostrophus) [1]	5.7 fl oz/A (0.178 lbs ai/A)	Apply PROLINE 480 SC Fungicide at the first sign of disease. Repeat applications as needed on a 7 – to 14-day interval if favorable conditions for disease development persist. **Do not** use adjuvants in sprays made between V8 (8 leaf collar) and VT (lowest branch of the tassel is visible but the silks have not yet emerged).
	For the suppression of: Fusarium[2], Gibberella[2] and Aspergillus[2] ear rots (*Fusarium* spp., *Gibberella* spp. and *Aspergillus* spp.)	5.7 fl oz per acre (0.178 lbs ai/A)	For optimum suppression of Fusarium, Gibberella and Aspergillus ear rots, apply PROLINE 480 SC Fungicide from the R1 (initial silk emergence) to the R2 (brown silk) corn growth stages. PROLINE 480 SC Fungicide will reduce both disease symptoms and levels of mycotoxin in the grain.
	Soilborne/Seedling Diseases: Rhizoctonia root[2] and stalk rot[2] *(Rhizoctonia solani)*	2.6 - 4.0 fl oz per acre (0.081 - 0.125 lbs ai/A)	In furrow application for soilborne/seedling disease control, see use directions and rate chart for various row spacing under the SOILBORNE/SEEDLING DISEASE CONTROL Section.
Other requirements: PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. For aerial applications, apply PROLINE 480 SC Fungicide using a minimum of 3 gpa spray solution. An adjuvant may be used to improve spray coverage. Refer to the adjuvant product label for specific use directions. Application of PROLINE 480 SC Fungicide is not recommended at times when corn is under severe environmental stress conditions. Do not exceed 22.8 fl oz (0.713 lbs prothioconazole) total from all uses, including soil and foliar applications, per acre of PROLINE			

480 SC Fungicide per year. Do not apply within 14 days of harvest for grain and fodder.
Forage may be harvested the same day of application.

[1]The above diseases are also known as Helminthosporium leaf blights

[[2]Not registered for use in California.]

APPLICATION DIRECTIONS		
CROP	**DISEASES SUPPRESSED**	**RATE OF PROLINE 480 SC FUNGICIDE**
Cotton	**In furrow and Banded** Damping off (*Rhizoctonia solani*) Fusarium Wilt[1] (*Fusarium* spp.)	5.7 - 7.1 fl oz/A (0.178 - 0.222 lbs ai/A) (0.4 - 0.5 fl oz per 1000 row feet)
	Foliar Target Spot (*Corynespora cassiicola*) Rust (*Puccinia* spp.)	5.0 - 5.7 fl oz/A (0.156 - 0.178 lbs ai/A)
	Application Directions: For foliar applications: PROLINE 480 SC Fungicide may be applied by ground, aerial, or chemigation application equipment. For in-furrow applications: Apply 5.7 to 7.1 fl oz per acre (0.393 to 0.489 fl oz per 1000 row feet if on 36 inch row spacing) in the furrow at planting. For banded applications: PROLINE 480 SC Fungicide may also be applied in a 4- to 6- inch band over the row at or near emergence.	
General Comments: When used at 5.0 to 5.7 fl oz per acre, do not apply more than three (3) applications of PROLINE 480 SC Fungicide per year including the in-furrow, banded and foliar applications. If any application is made at a rate above 5.7 fl oz per acre, do not make more than two (2) total applications of PROLINE 480 SC Fungicide per year including in-furrow, banded, and foliar applications. Repeat applications as needed using a 14-day spray interval if conditions remain favorable for continued or increasing disease development. A maximum of 17.1 fl oz (0.534 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year including all soil and foliar applications. Do not apply within 30 days of harvest.		
[1]Not registered for use in California.]		

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Chickpea	Ascochyta Blight (*Ascochyta* spp.)	5.0 - 5.7 fl oz/A (0.156 - 0.178 lb ai/A)
	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. Apply PROLINE 480 SC Fungicide at the first sign of disease. Use the higher use rate when conditions are favorable for severe disease pressure and/or when growing susceptible varieties.	
Other Requirements: Apply up to three (3) applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 10- to 14-day spray interval if conditions remain favorable for continued or increasing disease development. To optimize disease control, the lowest labeled rate of a spray surfactant should be tank-mixed with PROLINE 480 SC Fungicide. A maximum of 17.1 fl oz (0.534 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Allow a minimum of 7 days from the last application until cutting or swathing the crop for harvest.		

APPLICATION DIRECTIONS		
CROP	**DISEASES CONTROLLED**	**RATE OF PROLINE 480 SC FUNGICIDE**
Cucurbit vegetables (Crop Group 9): Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; edible gourd (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); pumpkin; squash (summer and winter, includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini, butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon	Fusarium wilt Fusarium blight (*Fusarium oxysporum*) (*Fusarium* spp.) Gummy stem blight (*Didymella* spp.) Southern blight[1] (*Sclerotium roflsii*) Powdery mildew (*Sphaerotheca fuliginea* / *Podosphaera xanthii*) (*Erysiphe cichoracearum*)	5.7 fl oz/A (0.178 lbs ai/A) (soil) 5.7 fl oz/A (0.178 lbs ai/A) (foliar)
	PROLINE 480 SC Fungicide may be applied by either ground or chemigation application equipment (including drip irrigation). Do not use in water used for hand transplanting. Not for use in greenhouse/transplant house.	
Other Requirements: Apply up to one (1) soil application and two (2) foliar applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 5- to 10-day spray interval if conditions remain favorable for continued or increasing disease development. A maximum of 17.1 fl oz (0.534 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 7 days of harvest.		
[1Not registered for use in California.]		

<table>
<tr><th colspan="3">APPLICATION DIRECTIONS</th></tr>
<tr><th>CROP</th><th>DISEASE CONTROLLED</th><th>RATE OF PROLINE 480 SC Fungicide</th></tr>
<tr><td rowspan="4">Dried Shelled Peas and Beans Subgroup (except soybeans)
Lupinus spp. (Grain, Sweet, White and White Sweet lupins)
Phaseolus spp .(Field, Kidney, Dry lima, Navy, Pinto and Tepary beans)
Vigna spp. (Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea and Urd bean)
Dry broad bean
Guar
Lablab bean
Pisum spp. [Pea (including Field pea) and Pigeon pea]</td><td>Foliar</td><td rowspan="2">5.7 fl oz/A
(0.178 lbs ai/A)</td></tr>
<tr><td>Ascochyta Blight (Ascochyta pinodes)
Rust (Uromyces appendiculatus)
White Mold (Sclerotinia sclerotiorum)</td></tr>
<tr><td>In Furrow</td><td rowspan="2">2.6 - 5.0 fl oz/A
(0.081 - 0.156 lbs ai/A)</td></tr>
<tr><td>Rhizoctonia rots[1] (Rhizoctonia spp.)</td></tr>
<tr><td colspan="2">PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. For ground applications, apply in a minimum of 20 gpa.
In-furrow use: Apply up to 5.0 fl oz per acre (0.288 fl oz per 1000 row feet if on 30 inch row spacing; 0.192 fl oz per 1000 row feet if on a 20 inch row spacing) in the furrow at planting. See use directions and rate chart for various row spacing under the SOILBORNE/SEEDLING DISEASE CONTROL section.
For rust control, apply PROLINE 480 SC Fungicide at the first sign of disease. For white mold control, apply PROLINE 480 SC Fungicide at 25% flower.</td></tr>
<tr><td colspan="3">Other Requirements: Apply up to three (3) applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 5- to 14-day spray interval if conditions remain favorable for continued or increasing disease development. To optimize disease control, the lowest labeled rate of a spray surfactant should be tank-mixed with PROLINE 480 SC Fungicide.
A maximum of 17.1 fl oz of PROLINE 480 SC Fungicide (0.534lbs prothioconazole) may be applied per acre per year. Allow a minimum of 7 days from the last application until cutting or swathing the crop for harvest.</td></tr>
<tr><td colspan="3">[1Not registered for use in California.]</td></tr>
</table>

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Lentils	Ascochyta Blight (*Ascochyta* spp.)	4.3 - 5.7 fl oz/A (0.134 - 0.178 lbs ai/A)
	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. Apply PROLINE 480 SC Fungicide at early flower or at the first sign of disease. Use the higher use rate when conditions are favorable for severe disease pressure and/or when growing less disease resistant varieties.	
Other Requirements: Apply up to three (3) applications of PROLINE 480 SC Fungicide per year. Repeat applications as needed using a 10- to 14-day spray interval if conditions remain favorable for continued or increasing disease development. To optimize disease control, the lowest labeled rate of a spray surfactant should be tank-mixed with PROLINE 480 SC Fungicide. A maximum of 17.1 fl oz (0.534 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Allow a minimum of 7 days from the last application until cutting or swathing the crop for harvest.		

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Rapeseed Subgroup 20A (including canola and *Brassica carinata*[1]): Borage, *Brassica carinata,* crambe, cuphea, echium, flax, gold of pleasure, hare's ear mustard, lesquerella, lunaria, meadowfoam, milkweek, mustard seed, oil radish, poppy seed, rapeseed, sesame, sweet rocket, cultivars, varieties, and/or hybrids of these	Sclerotinia Stem Rot White Mold (*Sclerotinia sclerotiorum*)	4.3 - 5.7 fl oz/A (0.134 - 0.178 lbs ai/A)
	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. Apply PROLINE 480 SC Fungicide when the crop is in the 20 - 50% bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall, and will allow for the maximum number of petals to be protected. Utilize the higher rate for fields with a history of heavy disease pressure or for dense crop stands. Good spray coverage of the plants is essential. The lowest labelled rate of a non-ionic surfactant may be tank-mixed with PROLINE 480 SC Fungicide.	
Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. A second application may be made after 14 days if conditions remain favorable for continued or increasing disease development. A maximum of 11.4 fl oz (0.356 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. PROLINE 480 SC Fungicide may be applied until the 50% bloom stage. Do not apply within 36 days of harvest.		
[1Not registered for use in California.]		

APPLICATION DIRECTIONS		
CROP	**DISEASE SUPPRESSED**	**RATE OF PROLINE 480 SC Fungicide**
Peanut[1]	**In-furrow and banded** Sclerotium Rot White Mold Southern Blight Southern Stem rot *(Sclerotium rolfsii)* Rhizoctonia Limb Rot *(Rhizoctonia solani)* Early Leaf Spot *(Cercospora arachidicola)* Late Leaf Spot *(Cercosporidium personatum)* Cylindrocladium Black Rot (CBR) *(Cylindrocladium crotalariae)* (Suppression with In furrow only)	0.4 fl oz per 1000 row feet (5.7 fl oz/A) (0.178 lbs ai/A)
	Soil-Borne Sclerotium Rot (*Sclerotium rolfsii*) (White Mold, Southern Blight, Southern Stem Rot) Rhizoctonia Limb Rot, Peg Rot, Pod Rot (*Rhizoctonia solani*) Cylindrolcadium Black Rot (*Cylindrocladium crotalariae*) (Suppression Only)	5.7 fl oz/A (0.178 lbs ai/A)
	Foliar Early Leaf Spot (*Cercospora arachidicola*) Late Leaf Spot (*Cercosporidium personatum*) Leaf Rust (*Puccinia arachidis*) Web Blotch (*Phoma arachidicola*) Leaf Scorch and Pepper Spot (*Leptosphaerulina crassiasca*)	5.0 - 5.7 fl oz/A (0.156 - 0.178 lbs ai/A)
	Proline 480 SC Fungicide may be applied by ground, chemigation, or aerial application equipment. **In-furrow and Banded Spray Program:** Apply 5.7 fl oz per acre (0.4 fl oz per 1000 row feet if on 36 inch row spacing) in the furrow at planting. PROLINE 480 SC Fungicide may also be applied in a 4- to 6- inch band over the row at or near emergence. Bayer CropScience recommends a minimum application volume of 20 gpa. **Foliar Disease Spray Program:** Apply the specified rate in a preventive spray schedule. Apply up to four (4) sprays using a 14-day interval. Use the higher use rate when conditions are favorable for severe disease pressure and/or when growing less disease resistant varieties. **Soil-Borne Disease Spray Program:** For optimum control of the specified soil-borne diseases, four consecutive applications of PROLINE 480 SC Fungicide must be made at 14-day intervals. In a typical 7 spray application program beginning 30-40 days after planting or as recommended by the local Extension Service, PROLINE 480 SC Fungicide should be applied for sprays 3, 4, 5 and 6. Applications of fungicides with a different mode of action should be made prior to and following applications of PROLINE 480 SC Fungicide to discourage development of resistant strains of fungi. Use PROLINE 480 SC Fungicide in conjunction with cultural practices that are known to reduce the severity of soil-borne diseases, such as proper crop rotation practices. For control of soil-borne diseases when using a **Leaf Spot Advisory Program** schedule, apply PROLINE 480 SC Fungicide in the first advisory spray in July and continue PROLINE 480 SC Fungicide applications at 14-day intervals. PROLINE 480 SC Fungicide must be carried by rainfall or irrigation into the root and pod zone for control of root and pod rots caused by *Sclerotium rolfsii* and *Rhizoctonia solani*. Drought conditions will decrease the effectiveness of PROLINE 480 SC Fungicide against the root and pod rots.	

Other Requirements: Apply up to four (4) applications of PROLINE 480 SC Fungicide per year, including the in-furrow and banded applications. When planting varieties with good to excellent levels of resistance to foliar diseases, the application interval may be extended up to 21 days in the absence of soil borne diseases. A maximum of 22.8 fl oz (0.713 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. PROLINE 480 SC Fungicide may be applied up to 14 days before harvest. Do not feed hay or threshings or allow livestock to graze in treated areas.
[[1]Not registered for use in California.]

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE® 480 SC FUNGICIDE**
Rice[1]	**Sheath/Stem Diseases** Sheath Blight (*Rhizoctonia solani*) **Foliar Diseases** Brown Spot (*Cochliobolus miyabeanus*) Narrow Brown Leafspot (*Cercospora oryzae*) Leaf Smut (*Entyloma oryzae*) False smut (*Ustilaginoidea virens*)	4.5 fl oz/A (0.141 lbs ai/A)
	Apply PROLINE® 480 SC Fungicide at initial sign of disease. Exact timing for rice disease control is dependent on rice growth stage, rice variety, the type of disease to be controlled and disease severity. Applications typically will occur from panicle differentiation to late boot. Consult with your local extension personnel or Bayer Crop Science representative to determine if treatment is needed.	
Other Requirements: Apply only one application of PROLINE® 480 SC Fungicide per year. Application may be made by ground or aerial spray equipment. A maximum of 4.5 fl oz (0.141 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply PROLINE 480 SC Fungicide later than 70% panicle emergence from the boot. Do not apply within 40 days of harvest. Not for use in California.		
[[1]Not registered for use in California.]		

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Soybean	Asian Soybean Rust (*Phakopsora pachyrhizi*) Frog Eye Leaf Spot (*Cercospora sojina*) Powdery Mildew (*Microsphaera diffusa*) Brown Spot[1] *(Septoria glycines)*	2.5 - 3.0 fl oz/A (0.078 - 0.094 lbs ai/A)
	Alternaria Leaf Spot[1] *(Alternaria* spp.*)* Anthracnose[1] *(Colletotrichum truncatum)* Asian Soybean Rust[1] (*Phakopsora pachyrhizi)* Brown Spot[1] *(Septoria glycines)* Cercospora Blight[1] *(Cercospora kikuchii)*	3.0 - 5.0 fl oz/A (0.094 to 0.156 lbs ai/A)

	Frogeye Leaf Spot[1] *(Cercospora sojina)* Pod & Stem Blight[1] *(Diaporthe phaseolorum)* Powdery Mildew[1] *(Microsphaera diffusa)* Rhizoctonia Aerial Blight[1] *(Rhizoctonia solani*) Sclerotinia Stem Rot also known as White Mold (*Sclerotinia sclerotiorum*) (Suppression Only)	
	In Furrow	2.6 - 5.0 fl oz/A (0.081 - 0.156 lbs ai/A)
	Rhizoctonia rots[1] *(Rhizoctonia* spp.)	
	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. For aerial application, apply in a minimum spray volume of 2 gpa. Apply PROLINE 480 SC Fungicide as a broadcast, preventative foliar spray or at first visible symptoms of the disease. Repeat applications on a 10- to 21-day spray interval if environmental conditions are favorable for continued disease development. Use of the higher rate and shorter spray intervals are recommended when disease pressure is severe. **In-furrow use:** Apply up to 5.0 fl oz per acre (0.288 fl oz per 1000 row feet if on 30 inch row spacing; 0.192 fl oz per 1000 row feet if on a 20 inch row spacing) in the furrow at planting. See use directions and rate chart for various row spacing under the SOILBORNE/SEEDLING DISEASE CONTROL section. **Sclerotinia Stem Rot (Suppression Only):** Apply PROLINE 480 SC Fungicide as a broadcast foliar spray at R1 (beginning bloom) when conditions are favorable for disease development. A sequential treatment of PROLINE 480 SC Fungicide or Stratego YLD Fungicide may be made at R3 – R4 (beginning to full pod). PROLINE 480 SC Fungicide may be applied by ground or air. Apply in a minimum of 10 gallons of spray solution per acre by ground sprayer or in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment.	
Other Requirements: Applications may not be made within 21 days of harvest. Do not apply more than 3 applications per year including all soil and foliar applications. Do not apply more than 12.9 fl oz (0.403 lbs prothioconazole) of PROLINE 480 SC Fungicide per acre per year.		
[[1]Not registered for use in California.]		

APPLICATION DIRECTIONS		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC Fungicide**
Sugar beets	**Foliar Diseases** Cercospora Leaf Spot (*Cercospora beticola*) Powdery Mildew (*Erysiphe polygoni*)	5.0 - 5.7 fl oz/A (0.156 - 0.178 lbs ai/A)
	In furrow and banded	5.7 fl oz/A (0.178 lbs ai/A)
	Rhizoctonia Stem Canker, Root Rot, Crown Rot (*Rhizoctonia solani)*	

	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. **Foliar disease control:** Apply PROLINE 480 SC Fungicide at the first sign of disease. Use the higher use rate and shorter intervals when conditions are favorable for severe disease pressure and/or when growing less disease resistant varieties. **Soil-borne disease control:** Apply PROLINE 480 SC Fungicide in a seven-inch band at the 4-leaf to row closure growth stage. **For in-furrow use:** apply up to 5.7 fl oz per acre (0.4 fl oz per 1000 row feet if on 36 inch row spacing) in the furrow at planting. See use directions and rate chart for various row spacing under the SOILBORNE/SEEDLING DISEASE CONTROL section.

Other Requirements: Apply up to 3 applications of PROLINE 480 SC Fungicide per year including all soil and foliar applications. Repeat applications as needed using a 14- to 21-day spray interval depending on disease pressure. Use a 14-day spray interval under normal to heavy disease pressure and a 21-day spray interval under light disease pressure.

To optimize disease control, the lowest labeled rate of a spray surfactant may be tank-mixed with PROLINE 480 SC Fungicide.

A maximum of 17.1 fl oz of PROLINE 480 SC Fungicide (0.534 lbs prothioconazole) may be applied per acre per year. Allow a minimum of 7 days from the last application before harvesting.

PROLINE 480 SC Fungicide is a Group 3 fungicide. To limit the potential for development of disease resistance:

- Alternate every application of PROLINE 480 SC Fungicide with a non-Group 3 fungicide.

<table>
<tr><th colspan="3">APPLICATION DIRECTIONS</th></tr>
<tr><th>CROP</th><th>DISEASE CONTROLLED</th><th>RATE OF PROLINE 480 SC Fungicide</th></tr>
<tr><td rowspan="3">Wheat (spring, durum and winter)
Triticale</td><td>Fusarium Head Blight (Fusarium spp.)
(Suppression Only)</td><td>5.0 - 5.7 fl oz/A
(0.156 - 0.178 lbs ai/A)</td></tr>
<tr><td>Leaf and Stem Diseases
Powdery Mildew (Blumeria graminis f. sp. tritici)
Rusts (Puccinia spp.)
Septoria Leaf and Glume Blotch (Septoria tritici)
Stagonospora Blotch (Stagonospora nodorum)
Tan Spot (Pyrenophora tritici-repentis)</td><td>4.3 - 5.0 fl oz/A
(0.134 - 0.156 lbs ai/A)</td></tr>
<tr><td colspan="2">PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment.
For aerial application made prior to early flower (prior to Feekes Growth Stage 10.51, apply a minimum of 2 gpa spray solution. For aerial applications made at the early flower growth stage or later, apply in a minimum of 5 gpa spray solution. Chemigation use is allowed only for applications made prior to early flower.
Fusarium Head Blight (Suppression Only): The optimal time to apply PROLINE 480 SC Fungicide is as a preventative foliar spray at early flower (Feekes Growth Stage 10.51). Spray equipment must be set to provide good coverage to wheat heads. For thorough coverage of the wheat head using ground application equipment, use forward and backward mounted nozzles or nozzles that have a two-directional spray. Operate nozzles within the spray pressure directions suggested by the manufacturer.
Leaf and Stem Diseases: Apply PROLINE 480 SC Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves or stems. Wheat fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.</td></tr>
<tr><td colspan="3">Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. Repeat applications using a 14-day spray interval if conditions remain favorable for continued or increasing disease development. For optimum disease control, the lowest labeled rate of a spray surfactant should be tank mixed with PROLINE 480 SC Fungicide.
A maximum of 9.37 fl oz (0.293 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. Do not apply within 30 days of harvest.</td></tr>
</table>

APPLICATION DIRECTIONS

CROP	DISEASE CONTROLLED	RATE OF PROLINE 480 SC FUNGICIDE
Nursery seedlings of Shortleaf, Loblolly, Slash, Longleaf and other pines and other Conifers and Hardwoods	Fusiform rust (*Cronartium quercum* f.sp. *fusiforme*) Pitch canker (*Fusarium* spp.) Rhizoctonia foliar blight (*Rhizoctonia* spp.)	5.0 fl oz/A (0.156 lbs ai/A)
Nursery seeds of Shortleaf, Loblolly, Slash, Longleaf and other pines and other Conifers and Hardwoods	Fusiform rust (*Cronartium quercum* f.sp. *fusiforme*) Pitch canker (*Fusarium* spp.)	10 fl oz per 50 lbs seed

Do not use in forest planting or established woodlands.

The crop safety and mix compatibility on all tree species and in tank-mixes with other products (spray surfactants, fertilizers, insecticides, etc.) has not been confirmed. Bayer CropScience recommends small scale testing with your planned use pattern. The user assumes all risks with the use of this product on trees.

Tree Seedling Application Directions: Foliar disease control: Apply PROLINE 480 SC Fungicide preventatively or at the first sign of disease using ground equipment only. Repeat applications as needed using a 14- to 21-day spray interval depending on your region. Consult your local extension agent on locally recommended spray intervals. Use shorter intervals when conditions are favorable for severe disease pressure and/or when growing less disease resistant varieties. To optimize disease control, the lowest labeled rate of a spray surfactant may be tank-mixed with PROLINE 480 SC Fungicide. A maximum off 25 fl oz (0.781 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per crop year.

Tree Seed Treatment Directions: Apply specified dosage to seed in a commercial treater or other suitable tumbler apparatus. Allow to mix for at least 10 minutes. Thoroughly air dry before sowing. Do not use treated seed for food or feed purposes. Seed that has been treated with this product that is then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag: "This seed has been treated with prothioconazole. Treated Seed – Do not Use for Food, Feed, or Oil Purposes. When opening this bag or loading/pouring the treated seed, wear a long sleeved shirt, long pants, shoes, socks, and chemical resistant gloves. After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the treated seeds in the soil or planting media."

STORAGE AND DISPOSAL

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

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

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response Telephone No. is 1-800-334-7577.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Offer for recycling, if available. If not recycled, then 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.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

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

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENTS:

Proline is a registered trademark of Bayer.

PRODUCED FOR

Bayer CropScience

Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167
1-866-99BAYER (1-866-992-2937)

PROLINE® 480 SC Fungicide

ABN: PTZ 480 ST; Redigo 480

Section B: Seed Treatment Uses

GROUP	3	FUNGICIDE

PROLINE® 480 SC Fungicide

[ABN: PTZ 480 ST; Redigo 480]

For: control of specified diseases on listed crops.

ACTIVE INGREDIENT:

Prothioconazole, 2-[2-(1-Chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione:	**41.00%**
OTHER INGREDIENTS:	**59.00%**
TOTAL:	100.00%

Contains 4.00 pounds Prothioconazole per U.S. gallon

EPA Reg. No. 264-825 **EPA Est.**

KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

Please refer to [back panel] [booklet] for additional precautionary statements and directions for use. [Note to reviewer: Location of additional precautionary statements and directions for use will vary between those listed, depending on container type/size.]

Net Contents:

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FIRST AID	
If Swallowed:	• Immediately call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If Inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: No specific antidote. Treat symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

ENGINEERING CONTROLS

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. • Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Users should 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.

USER SAFETY REQUIREMENTS

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.

ENVIRONMENTAL HAZARDS

This product is toxic to estuarine/marine invertebrates, and freshwater/estuaries/marine aquatic plants. 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.

Prothioconazole-desthio (a degradate of prothioconazole) is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Drift and runoff are hazardous to aquatic organisms in water adjacent to treated areas. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Bayer CropScience, no claims are made to guarantee germination of carry-over seed.

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

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read the entire label before using this product.

For use only in commercial seed treatment equipment. Do not use in hopper box, planter box, slurry box, or other on-farm seed treatment applications.

PRODUCT INFORMATION

PROLINE® 480 SC Fungicide:

- is a broad-spectrum systemic seed treatment fungicide for the control of Ascomycetes, Basidiomycetes and Deuteromycetes diseases in a variety of crops including alfalfa, barley, buckwheat, cotton, dried shelled pea and bean (except for soybean) subgroup, millet (Pearl & Proso), oats, rice, rye, sorghum, soybeans, triticale, and wheat.

APPLICATION INSTRUCTIONS

- PROLINE 480 SC Fungicide provides control or suppression of many important diseases of alfalfa, barley, buckwheat, cotton, dried shelled pea and bean (except for soybean) subgroup, millet (Pearl & Proso), oats, rice, rye, sorghum, soybeans, triticale, and wheat.
- Apply using standard slurry or mist-type seed treatment equipment. Uniform application of seed is necessary to ensure seed safety and best disease protection. Product should be diluted with sufficient water to ensure complete seed coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop to be treated with Proline 480 SC Fungicide. For best results, apply to high quality, properly cleaned seed.
- When reference is made to disease suppression, suppression can mean either erratic control from good to fair or consistent control at a level below that obtained with the best commercial disease control products.
- Under conditions conducive to extended infection periods or high disease pressure, additional fungicide applications beyond the number allowed by this label may be needed. Under these conditions use another fungicide registered for the crop/disease.
- Equipment must be properly calibrated before use.

USE RESTRICTIONS

- Do not use in hopper box, planter box, slurry box, or other on-farm seed treatment applications.
- This product does not contain colorant. The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, part 2.25. Any colorant added to treated seed must be cleared for use under 40CFR, Part 153.155.
- In California – Registered only for use in commercial seed treating establishments. Do not use for “on-farm” use.
- Store treated seeds away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seed.
- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Treated seed must be adequately covered with soil at planting. Plant at a minimum depth of ½ inch.
- Dispose of seed packaging or containers in accordance with local requirements. Do not use empty seed bags for any other purpose.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer’s recommendations. Surplus seed or empty seed containers must be stored or disposed according to local federal regulations.
- After the seeds have been planted, do not enter or allow worker entry into the treated areas during the restricted-entry interval (REI) of 12 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the treated seeds in the soil or with the planting media.

Refer to the specific use directions and restrictions in each Crop, Crop Group or Crop Subgroup table.

ROTATIONAL RESTRICTIONS

Treated areas may be replanted with any crop specified on this label as soon as practical after last application. For crops not listed on this label, do not plant back within 30 days of last application.

RESISTANCE MANAGEMENT RECOMMENDATIONS

- PROLINE 480 SC Fungicide is a Group 3 fungicide, which exhibits no known cross-resistance to other fungicide groups. However, fungal pathogens are known to develop resistance to products with the same mode of action when used repeatedly.
- Any fungal population may contain or develop individuals that are resistant to PROLINE 480 SC Fungicide and other Group 3 fungicides. If Group 3 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted diseases, the resistant isolates may eventually dominate the fungal population.
- Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotation and /or tank mixing with products having different modes of action or limiting the total number of applications per season.
- Contact your local extension specialist, certified crop advisor, and/or manufacturer for fungicide resistance management and/or integrated disease management recommendations for specific crops and pathogen populations. Bayer CropScience encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

SPECIFIC CROP DIRECTIONS

CROP USE DIRECTIONS

APPLICATION DIRECTIONS FOR SEED TREATMENT

APPLICATION DIRECTIONS FOR SEED TREATMENT		
CROP	**DISEASE CONTROLLED**	**RATE OF PROLINE 480 SC FUNGICIDE**
Alfalfa[1]	Seed rot and damping-off caused by *Rhizoctonia*	0.48 fl oz per 100 lbs seed (15 g ai per 100 kg seed)
[[1]Not registered for use in California.]		

CROP	DISEASE CONTROLLED	RATE OF PROLINE 480 SC FUNGICIDE
Beans and Peas (dried) including Soybean (Crop Group 6C) [1] Soybean, Adzuki Bean, Blackeyed Pea, Broad Bean, Catjang, Chickpea, Cowpea, Crowder Pea, Field Bean, Field Pea, Guar, Kidney Bean, Lablab Bean, Lentil, Lima Bean, Moth Bean, Mung Bean, Navy Bean, Pigeon Pea, Pinto Bean, Rice Bean, Southern Pea, Tepary Bean, Urd Bean	Seed rot and damping-off caused by *Rhizoctonia, Fusarium* Seed decay	**APPLICATION RATE PER 100 LBS:** 0.16 - 0.32 fl oz per 100 lbs seed (5 - 10 g ai per 100 kg seed) **APPLICATION RATE PER SEED (based on 3000 seed per lbs; soybean only):** 0.0075 - 0.015 mg ai per seed
[1Not registered for use in California.]		

CROP	DISEASE CONTROLLED	RATE OF PROLINE 480 SC FUNGICIDE
Cereal grains [1] Barley Buckwheat Millet (Pearl and Proso) Oats Rye Triticale Wheat Corn and Rice (see corn and rice sections in this table)	Common bunt Covered smut False loose smut Flag smut Leaf stripe Loose smut Stinking smut Stem smut True loose smut Seed rot, pre-emergence damping-off and seedling blight caused by soilborne *Rhizoctonia solani*, *Fusarium, Cochliobolus* Seed decay Common root rot, foot rot, and crown rot (early season suppression) Rust, *Septoria* and powdery mildew (early season suppression) Note - For environments with Pythium pressure, combine Proline 480 with Allegiance Flowable Seed Treatment Fungicide at rates recommended on label.	0.16 - 0.8 fl oz per 100 lbs seed (5 - 25 g ai per 100 kg seed)
[1Not registered for use in California.]		

COTTON[1]			
Disease(s) Controlled			
Seedborne decay caused by *Fusarium spp. Aspergillus spp.* *Cladosporium spp., Penicillium spp.* *Alternaria spp.* Soilborne seedling disease caused by *Fusarium spp*. *Rhizoctonia solani*			
Rate of Proline 480 SC Fungicide			
seeds/lb	**fl oz/100 lbs seed**	**fl oz/100,000 seeds**	**mg ai/seed**
4500	0.15 - 0.40	0.035 - 0.090	0.005 - 0.013
Disease(s) Controlled			
Seedling disease caused by heavy infestations of Fusarium spp. and Rhizoctonia solani			
Rate of Proline 480 SC Fungicide			
seeds/lb	**fl oz/100 lbs seed**	**fl oz/100,000 seeds**	**mg ai/seed**
4500	0.40 - 0.81	0.090 - 0.18	0.013 - 0.026
Crop Specific Directions and Restrictions: • Application rate specified for planting rate range of 29,000 - 85,000 cotton seed per acre			
[1Not registered for use in California.]			

<table>
<tr><th>CROP</th><th>DISEASE CONTROLLED</th><th>RATE OF PROLINE 480 SC FUNGICIDE</th></tr>
<tr><td>Corn (Field Corn, Field Corn Grown For Seed, Popcorn, and Sweet Corn)[1]</td><td colspan="2">To aid in the control or suppression of seedborn disease and early season seedling disease caused by Fusarium spp. and Rhizoctonia solani
<table>
<tr><th colspan="5">Rate of Proline 480 SC Fungicide</th></tr>
<tr><th></th><th>seeds/lb[1]</th><th>fl oz/100 lbs seed</th><th>fl oz/80,000 seed unit</th><th>mg ai/seed</th></tr>
<tr><td>Field Corn, Field Corn Grown For Seed,</td><td>1681</td><td>0.08 - 0.8</td><td>0.038 - 0.381</td><td>0.0068 - 0.0676</td></tr>
<tr><td>Popcorn</td><td>3061</td><td>0.08 - 0.8</td><td>0.021 - 0.210</td><td>0.0037 - 0.0371</td></tr>
<tr><td>Sweet Corn</td><td>3150</td><td>0.08 - 0.8</td><td>0.020 - 0.203</td><td>0.0036 - 0.0361</td></tr>
</table>
For the suppression of late season stalk diseases caused by Fusarium spp. Assists in control of seedborne and soilborne Sphacelotheca reiliana.
<table>
<tr><th colspan="5">Rate of Proline 480 SC Fungicide</th></tr>
<tr><th></th><th>seeds/lb[1]</th><th>fl oz/100 lbs seed</th><th>fl oz/80,000 seed unit</th><th>mg ai/seed</th></tr>
<tr><td>Field Corn, Field Corn Grown For Seed,</td><td>1681</td><td>0.96 - 3.83</td><td>0.457 - 1.824</td><td>0.0811 - 0.3235</td></tr>
<tr><td>Popcorn</td><td>3061</td><td>0.96 - 3.83</td><td>0.251 - 1.001</td><td>0.0445 - 0.1776</td></tr>
<tr><td>Sweet Corn</td><td>3150</td><td>0.96 - 3.83</td><td>0.244 - 0.973</td><td>0.0433 - 0.1726</td></tr>
</table>
[1]Seeds/lb values based on averages for Field Corn (1681 seeds/lb), Popcorn (3061 seeds/lb), and Sweet Corn (3150 seeds/lb).</td></tr>
<tr><td colspan="3">[1]Not registered for use in California.]</td></tr>
</table>

CROP	DISEASE CONTROLLED	RATE OF PROLINE 480 SC FUNGICIDE
Rice[1]	Seed rot and damping-off caused by *Rhizoctonia* and *Fusarium* Seed decay	0.16 - 0.32 fl oz per 100 lbs seed (5 - 10 g ai per 100 kg seed)
Notes and Restrictions • Do not plant treated rice seed directly into a flooded field. Do not soak treated rice seed.		
[1]Not registered for use in California.]		

Sorghum[1]			
Disease(s) Controlled			
Seedborne and soilborne fungi which cause seed decay, damping-off and seedling blight including the following: *Fusarium* spp. *Asperigillus* spp. *Alternaria* spp. *Cladosporium* spp. *Penicillium* spp.			
Rate of Proline 480 SC Fungicide			
seeds/lb[2]	**fl oz/100 lbs seed**	**fl oz/100,000 seeds**	**mg ai/seed**
11,000 - 25,000	0.08 - 0.32	0.0032 - 0.0291	0.00045 - 0.0041
Crop Specific Directions and Restrictions: • Plant treated sorghum seed at a minimum depth of ½ inch. • [2]Application rate specified for planting rate range of 25,000 to 100,000 sorghum seed per acre.			
[1]Not registered for use in California.]			

SEED TAG LABELING

The Federal Seed Act requires that the container of seed treated with Proline 480 SC Fungicide must be labeled with the following statements:

- This seed has been treated with:
  - **Proline 480 SC Fungicide**, which contains **41% Prothioconazole.**
- Do not use treated seed for food, feed, or oil production.

In addition, the following statements are required on the container of seed treated with **Proline 480 SC Fungicide**:

- Treated areas may be replanted with any crop specified on this label as soon as practical after last application. For crops not listed on this label, do not plant back within 30 days of last application.
- **Store treated seeds away from food and feedstuffs.**
- **Do not allow children, pets, or livestock to have access to treated seed.**
- **Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.**
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Treated at manufacturer's recommended rate
- Treated seed must be adequately covered with soil at planting. Plant at a minimum depth of ½ inch.
- Dispose of seed packaging or containers in accordance with local requirements. Do not use empty seed bags for any other purpose.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer's recommendations. Surplus seed or empty seed containers must be stored or disposed according to local federal regulations.
- After the seeds have been planted, do not enter or allow worker entry into the treated areas during the restricted-entry interval (REI) of 12 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the treated seeds in the soil or with the planting media.

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)
For MEDICAL, TRANSPORTATION or OTHER Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

STORAGE AND DISPOSAL

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

Pesticide Storage
Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.
Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response Telephone No. is 1-800-334-7577.

Pesticide Disposal
Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Handling

[Dilutable Seed Treatment Products in Non-Refillable Plastic Containers]

Rigid, Non-refillable containers (equal to or less than 5 gallons)
Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure 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 1/4 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)
Non-refillable container. Do not reuse or refill this container. After emptying product from container, either return container to Bayer CropScience per instructions from Bayer CropScience Customer Service Center (1-800-527-4781), or rinse and either recycle or dispose of the container as follows:

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)
Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.– Snyder 120 Next Gen, Bonar B120, Drums, and Kegs)
Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Dilutable Seed Treatment Products in Non-Refillable Metal Containers]

Nonrefillable container. Do not reuse or refill this container. After emptying product from container, either return container to Bayer CropScience per instructions from Bayer CropScience Customer Service Center (1-800-527-4781), or rinse and either recycle or dispose of the container as follows:

Liquid dilutables in containers small enough to shake (5 gallons or less)
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.

Solid dilutables in containers small enough to shake (5 gallons or 50 pounds or less)
Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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.

Any dilutable pesticides in containers too large to shake (larger than 5 gallons or 50 pounds)
Triple Rinse as follows: Empty 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.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Non-Dilutable Seed-Treatment Products in Non-Refillable Containers]

Seed-Treatment Products in Non-Refillable Fiber Drums with Liners
Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then offer for recycling if available or dispose of in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

Seed-Treatment Products in Non-rigid, Non-Refillable Containers
Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

[Seed Treatment Products in Refillable Containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. After emptying product from container, either return container to Bayer CropScience per instructions from Bayer CropScience Customer Service Center (1-800-527-4781) or rinse and either recycle or dispose of the container as follows:

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)
Pressure rinsing 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 pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g. – Snyder 120 Next Gen, Bonar B120, Drums, and Kegs)
Triple rinsing 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 triple rinse the containers before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

End users are authorized to remove tamper evident cables as required to remove the product from the container unless the container is equipped with one way valves and refilling or returning is planned. If this is the case, end users are not authorized to remove tamper evident cables, remove one way valves or clean container.

Proline is a registered trademark of Bayer

PROLINE 480 SC Fungicide (Pending) 12/12/2018, 03/08/2019

Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167
1-866-99BAYER (1-866-992-2937)

PROLINE 480 SC Fungicide
ABN: PTZ 480 ST; Redigo 480

EPA Reg. No. 264-825

For Use On: *Brassica carinata* and Rapeseed Subgroup 20A (including canola)

This supplemental label expires on 03/08/2022 and must not be used or distributed after this date.

ACCEPTED
03/22/2019
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 264-825

Supplemental Label

KEEP OUT OF REACH OF CHILDREN
CAUTION

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Read this label and the product package label before using this product. This Supplemental Label must be in the possession of the user at the time of pesticide application. Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the product label for PROLINE 480 SC Fungicide attached to the container.

APPLICATION DIRECTIONS

CROP	DISEASE CONTROLLED	RATE OF PROLINE 480 SC Fungicide
Rapeseed Subgroup 20A (including canola and *Brassica carinata*[1]): Borage, *Brassica carinata,* crambe, cuphea, echium, flax, gold of pleasure, hare's ear mustard, lesquerella, lunaria, meadowfoam, milkweek, mustard seed, oil radish, poppy seed, rapeseed, sesame, sweet rocket, cultivars, varieties, and/or hybrids of these	Sclerotinia Stem Rot White Mold (*Sclerotinia sclerotiorum*)	4.3 - 5.7 fl oz/A (0.134 - 0.178 lbs ai/A)
	PROLINE 480 SC Fungicide may be applied by either ground, aerial or chemigation application equipment. Apply PROLINE 480 SC Fungicide when the crop is in the 20 - 50% bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall, and will allow for the maximum number of petals to be protected. Utilize the higher rate for fields with a history of heavy disease pressure or for dense crop stands. Good spray coverage of the plants is essential. The lowest labelled rate of a non-ionic surfactant may be tank-mixed with PROLINE 480 SC Fungicide.	

Other Requirements: Apply up to two (2) applications of PROLINE 480 SC Fungicide per year. A second application may be made after 14 days if conditions remain favorable for continued or increasing disease development. A maximum of 11.4 fl oz (0.356 lbs prothioconazole) of PROLINE 480 SC Fungicide may be applied per acre per year. PROLINE 480 SC Fungicide may be applied until the 50% bloom stage. Do not apply within 36 days of harvest.

[1 Not Registered for use in California.]

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

As with any crop-protection product, always read and follow label directions.
For additional information call toll-free 1-866-99BAYER (1-866-992-2937).