



**\*\*CONTAINER\*\***

GROUPS	<b>3</b>	FUNGICIDES
--------	----------	------------

# **PTZ 480SC**

## **SEED TREATMENT FUNGICIDE**

### **SUSPENSION**

A seed treatment product for control or suppression of certain seed-borne and soil-borne diseases of Cereals, Chickpea, Corn, Dry Beans, Dry Peas (including field peas), Lentil and Soybean.

#### AGRICULTURAL

ACTIVE INGREDIENT: prothioconazole..... 480 g/L

Contains 1,2-benzisothiazolin-3-one at 0.04% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% and 2-methyl-4-isothiazolin-3-one at 0.0004% as preservatives.

REGISTRATION NO. 31839 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING



CAUTION POISON

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. SE  
Calgary, Alberta  
T2C 3G3

NET CONTENTS: 0.5 – 1000 L

PROTECT FROM FREEZING

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies,  
call: 1-800-334-7577 (24 hours a day)

## GENERAL INFORMATION

PTZ 480SC Seed Treatment Fungicide is a concentrate flowable seed treatment formulation containing the systemic, broad-spectrum fungicide prothioconazole. PTZ 480SC Seed Treatment Fungicide provides protection from listed seed, seedling and soil-borne diseases of cereals, chickpea, corn, dry beans, dry peas (including field peas), lentil and soybean.

PTZ 480SC Seed Treatment Fungicide may be applied in commercial treatment facilities, by mobile treaters, or on-farm with conventional treating equipment, which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.

### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.
- For seeds treated with 10.4 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear long pants, a long-sleeved shirt, socks and shoes, and chemical-resistant gloves during mixing, loading, treating, clean-up, maintenance of seed treatment equipment, bagging, sewing or stacking of bagged treated seed.
- For corn and soybean seed treated with 10.5 mL to 20.8 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear coveralls over long pants, a long-sleeved shirt, socks and shoes, and chemical-resistant gloves during mixing, loading and treating seed. Workers must wear coveralls over long pants, a long-sleeved shirt, socks and shoes, chemical-resistant gloves and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during clean-up, maintenance of seed treatment equipment, bagging, sewing or stacking of bagged treated seed.
- For corn seed treated with 62.5 mL to 125 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear coveralls over long pants and a long-sleeved shirt, chemical-resistant gloves, socks and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing, loading, treating, clean-up and maintenance of seed treatment equipment, handling treated seed including bagging, sewing or stacking of bagged treated seed. Workers involved in the clean-out of treatment equipment used to treat corn at application rates from 62.5 mL to 125 mL/100 kg seed must wear coveralls over long pants and a long-sleeved shirt, chemical-resistant gloves, socks and shoes, and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during the clean-out process.
- Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.

- All bags and bulk containers containing treated seed for sale or use in Canada must be labeled or tagged as follows:

For corn and soybean seeds treated with 10.5 mL to 20.8 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: "This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes when handling treated seeds. Plant with closed-cab tractors only. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."

For corn seeds treated with 62.5 mL to 125 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed, inclusively: "This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes, and NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling treated seed. Plant with closed-cab tractors only. Coveralls, NIOSH-approved dust mask, and chemical-resistant gloves are not required when inside the closed-cab equipment. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."

For all other seeds treated with PTZ 480SC Seed Treatment Fungicide: "This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes when handling treated seeds. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."

- If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

#### FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

There is no specific antidote if this product is ingested. Treat symptomatically.

#### ENVIRONMENTAL HAZARDS:

- TOXIC to aquatic organisms.

#### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep away from direct sunlight. Store in a cool, dry place and avoid excessive heat. Keep container closed. To prevent contamination, store this product away from food or feed.

#### Disposal

##### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

##### FOR RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

##### FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

##### FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer PTZ 480SC Seed Treatment Fungicide from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the PTZ 480SC Seed Treatment Fungicide and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

**DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**DISPOSAL OF TREATED SEED:**

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.



**\*\*BOOKLET\*\***

GROUPS

3

FUNGICIDES

# **PTZ 480SC**

## **SEED TREATMENT FUNGICIDE**

### **SUSPENSION**

A seed treatment product for control or suppression of certain seed-borne and soil-borne diseases of Cereals, Chickpea, Corn, Dry Beans, Dry Peas (including field peas), Lentil and Soybean.

#### AGRICULTURAL

ACTIVE INGREDIENT: prothioconazole..... 480 g/L

Contains 1,2-benzisothiazolin-3-one at 0.04% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% and 2-methyl-4-isothiazolin-3-one at 0.0004% as preservatives.

REGISTRATION NO. 31839 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING



CAUTION POISON

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. SE  
Calgary, Alberta  
T2C 3G3

NET CONTENTS: 0.5 – 1000 L

PROTECT FROM FREEZING

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies,  
call: 1-800-334-7577 (24 hours a day)

<b>Table of Contents:</b>	Section	Page Number
<b>GENERAL INFORMATION</b>	1. The Product .....	3
<b>SAFETY AND HANDLING</b>	2. Precautions, Protective Clothing and Equipment ..	3
	3. First Aid and Toxicological Information .....	4
	4. Environmental Precautions and Information .....	5
	5. Storage .....	5
	6. Disposal .....	5
	7. Notices .....	6
<b>DIRECTIONS FOR USE</b>	8. Pests Controlled .....	7
	9. Recommended Uses .....	8
	10. Application Cautions .....	13
	11. Use Limitations .....	13
	12. Resistance Management Recommendations .....	14

## GENERAL INFORMATION

### Section 1: The Product

PTZ 480SC Seed Treatment Fungicide is a concentrate flowable seed treatment formulation containing the systemic, broad-spectrum fungicide prothioconazole. PTZ 480SC Seed Treatment Fungicide provides protection from listed seed, seedling and soil-borne diseases of cereals, chickpea, corn, dry beans, dry peas (including field peas), lentil and soybean.

PTZ 480SC Seed Treatment Fungicide may be applied in commercial treatment facilities, by mobile treaters, or on-farm with conventional treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.

## SAFETY AND HANDLING

### Section 2: Precautions, Protective Clothing and Equipment

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.
- For seeds treated with 10.4 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear long pants, a long-sleeved shirt, socks and shoes, and chemical-resistant gloves during mixing, loading, treating, clean-up, maintenance of seed treatment equipment, bagging, sewing or stacking of bagged treated seed.
- For corn and soybean seed treated with 10.5 mL to 20.8 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear coveralls over long pants, a long-sleeved shirt, socks and shoes and chemical-resistant gloves during mixing, loading and treating seed. Workers must wear coveralls over long pants, a long-sleeved shirt, socks and shoes, chemical-resistant gloves and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during clean-up, maintenance of seed treatment equipment, bagging, sewing or stacking of bagged treated seed.
- For corn seed treated with 62.5 mL to 125 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: Workers must wear coveralls over long pants and a long-sleeved shirt, chemical-resistant gloves, socks and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing, loading, treating, clean-up and maintenance of seed treatment equipment, handling treated seed including bagging, sewing or stacking of bagged treated seed. Workers involved in the clean-out of treatment equipment used to treat corn at application rates from 62.5 mL to 125 mL/100 kg seed must wear coveralls over long pants and a long-sleeved shirt, chemical-resistant gloves, socks and shoes, and a



respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during the clean-out process.

- Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- All bags and bulk containers containing treated seed for sale or use in Canada must be labeled or tagged as follows:

For corn and soybean seeds treated with 10.5 mL to 20.8 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed: “This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes when handling treated seeds. Plant with closed-cab tractors only. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil.”

For corn seeds treated with 62.5 mL to 125 mL PTZ 480SC Seed Treatment Fungicide/100 kg seed, inclusively: “This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling treated seed. Plant with closed-cab tractors only. Coveralls, NIOSH-approved dust mask, and chemical-resistant gloves are not required when inside the closed-cab equipment. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil.”

For all other seeds treated with PTZ 480SC Seed Treatment Fungicide: “This seed has been treated with PTZ 480SC Seed Treatment Fungicide containing prothioconazole [*and any tank mix product*]. Wear a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes when handling treated seeds. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil.”

- If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

### Section 3: First Aid and Toxicological Information

#### **FIRST AID:**

IF SWALLOWED: Call a poison control centre or doctor immediately 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

There is no specific antidote if this product is ingested. Treat symptomatically.

### Section 4: Environmental Precautions and Information

#### ENVIRONMENTAL HAZARDS:

- TOXIC to aquatic organisms.

### Section 5: Storage

Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep away from direct sunlight. Store in a cool, dry place and avoid excessive heat. Keep container closed. To prevent contamination, store this product away from food or feed.

### Section 6: Disposal

#### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

#### FOR RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer PTZ 480SC Seed Treatment Fungicide from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the PTZ 480SC Seed Treatment Fungicide and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

#### DISPOSAL OF UNUSED, UNWANTED PRODUCT:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### DISPOSAL OF TREATED SEED:

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. **DO NOT** re-use bags from treated seed to handle food or feed products.

<b>Section 7: Notices</b>
---------------------------

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

#### DIRECTIONS FOR USE

PTZ 480SC Seed Treatment Fungicide is a seed treatment formulation for use in commercial seed treatment operations (including mobile treaters) and for on-farm treatment with conventional seed treating equipment which can accurately meter, mix and apply flowable seed

treatment formulations. Allow seeds to dry before bagging, storing or seeding.

For corn seeds treated with 12.5 – 125 mL/100 kg of seed, or soybeans treated with 10.5 – 20.8 mL/100 kg of seed: PTZ 480SC Seed Treatment Fungicide is a seed treatment formulation for use only in closed transfer commercial seed treatment facilities, with conventional seed treating equipment which can accurately meter, mix and apply flowable seed treatment formulations. Closed transfer includes closed mixing, loading, calibrating, and closed treatment equipment. Allow seeds to dry before bagging, storing or seeding.

This product is recommended to be diluted with water or another suitable liquid just prior to application to ensure uniform coverage to the seed during the application process. Do not store diluted mixture. Additional or continuous agitation or mixing of a diluted mixture may be necessary to prevent PTZ 480SC Seed Treatment Fungicide from settling out. Uniform application to seed is necessary to ensure best disease protection and seed safety.

PTZ 480SC Seed Treatment Fungicide-treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

<b>Section 8: Pests Controlled</b>
------------------------------------

PTZ 480SC Seed Treatment Fungicide is a seed treatment containing the fungicide prothioconazole. PTZ 480SC Seed Treatment Fungicide provides protection from the following seed, seedling and soil-borne diseases on labeled crops.

## Section 9: Recommended Uses

CROP	PEST	APPLICATION RATE	DIRECTIONS
Cereal grains (wheat, barley, oat, rye, triticale, millet, pearl millet, proso millet)	<b>Diseases Controlled:</b>		Use only in commercial seed treatment operations (including mobile treaters) and for on-farm treatment with conventional seed treating equipment, which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber. Not for use in hopper box, slurry-box or similar seed treatment applications.  Uniform application to seed is necessary to ensure best disease protection and seed safety.
	<p>Seed rot / pre-emergence damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. and <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Fusarium</i> spp. and <i>Cochliobolus sativus</i></p> <p>Post-emergence damping-off caused by soil-borne <i>Fusarium</i> spp.</p> <p>Seed rot / pre-emergence damping-off, and post-emergence damping-off and seedling blight caused by seed-borne <i>Aspergillus</i> spp.</p> <p>Common bunt (<i>Tilletia foetida</i>)</p> <p>False loose smut and covered smut of barley (<i>Ustilago nigra</i> and <i>U. hordei</i>);</p> <p>Barley leaf stripe (<i>Pyrenophora graminea</i>)</p> <p>Loose smut and covered smut of oat (<i>Ustilago avenae</i> and <i>U. kolleri</i>)</p>	Apply 10.4 mL per 100 kg of seed	
	<b>Diseases Suppressed:</b>		
	<p>Loose smut of wheat (<i>Ustilago tritici</i>)</p> <p>Root rot caused by seed-borne and soil-borne <i>Fusarium</i> spp.</p> <p>Root rot caused by soil-borne <i>Cochliobolus sativus</i></p> <p>Crown rot of small-grain cereals caused by seed-borne <i>Fusarium</i> spp.</p> <p>Seedling blight caused by seed-borne <i>Penicillium</i> spp.</p>	Apply 10.4 mL per 100 kg of seed	

CROP	PEST	APPLICATION RATE	DIRECTIONS
Dry bean, dried and field pea, chickpea, and lentil	<b>Diseases Controlled:</b>	Apply 10.4 mL per 100 kg of seed	Use only in commercial seed treatment operations (including mobile treaters) and for on-farm treatment with conventional seed treating equipment, which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber. Not for use in hopper box, slurry-box or similar seed treatment applications.  Uniform application to seed is necessary to ensure best disease protection and seed safety.
	Seed rot / pre-emergence damping-off and post-emergence damping-off caused by soil-borne <i>Fusarium</i> spp.  Seed rot and pre-emergence damping-off of chickpea caused by <i>Ascochyta rabiei</i>		

CROP	PEST	APPLICATION RATE		DIRECTIONS
		mL PTZ 480 SC / 100 kg seed	mg a.i. / seed <sup>a</sup>	
Soybean	<b>Diseases Controlled:</b>			<p>Use only in commercial seed treatment operations (including mobile treaters) and for on-farm treatment with conventional seed treating equipment, which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber. Not for use in hopper box, slurry-box or similar seed treatment applications.</p> <p>Closed transfer systems are required for soybean seed treated with 10.5 mL to 20.8 mL PTZ 480SC Seed Treatment Fungicide /100 kg seed.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p>
	Seed rot / pre-emergence damping-off and post-emergence damping-off caused by soil-borne <i>Fusarium</i> spp.	10.4	0.008	
	Seed rot and pre-emergence damping-off caused by seed-borne <i>Phomopsis longicolla</i>			
	Root rot caused by soil-borne <i>Fusarium</i> spp.	10.4 – 20.8 <sup>b</sup>	0.008 – 0.015	
	<b>Diseases Suppressed:</b>			
Seed infection caused by <i>Penicillium</i> spp.	10.4	0.008		

<sup>a</sup> Rate is calculated based on number of seeds / kg average of soybean (6600)

<sup>b</sup> Use the higher rate of 20.8 mL/100 kg seed for improved control of root rot of soybean caused by soil-borne *Fusarium* spp., when heavy disease pressure is anticipated such as in heavy clay fields or fields with a history of *Fusarium* disease, or for use on sensitive cultivars.

**Corn (Field, Sweet, Popcorn):**

PEST	APPLICATION RATE				DIRECTIONS
	Crop	mL PTZ 480SC Seed Treatment Fungicide / 100 kg seed	mL PTZ 480SC Seed Treatment Fungicide / 80,000 seeds	mg a.i. / seed <sup>a</sup>	
<p><b>Diseases Controlled:</b></p> <p>Seed rot and pre-emergence damping-off caused by seed-borne and soil-borne <i>Fusarium</i> spp.</p> <p>Post-emergence damping-off caused by soil-borne <i>Fusarium</i> spp.</p> <p>Seed rot and pre-emergence damping-off caused by seed-borne <i>Cladosporium</i> spp. and <i>Aspergillus</i> spp.</p> <p><b>Diseases Suppressed:</b></p> <p>Seed rot and pre-emergence damping-off caused by <i>Penicillium</i> spp.</p>	Field Corn (including field corn grown for seed)	10.4 – 20.8 <sup>b</sup>	2.24 – 4.48 <sup>b</sup>	0.0135 – 0.0270 <sup>b</sup>	<p>Use only in commercial seed treatment operations (including mobile treaters) with conventional seed treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber. Not for use in hopper box, slurry-box or similar seed treatment applications.</p> <p>Closed transfer systems are required for corn seed treated with 12.5 mL to 125 mL PTZ 480SC Seed Treatment Fungicide /100 kg seed.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p>
	Popcorn	10.4 – 20.8 <sup>b</sup>	1.23 – 2.46 <sup>b</sup>	0.0074 – 0.0148 <sup>b</sup>	
	Sweet Corn	10.4 – 20.8 <sup>b</sup>	1.19 – 2.38 <sup>b</sup>	0.0072 – 0.0148 <sup>b</sup>	
<p><b>Diseases Suppressed:</b></p> <p>Seed-borne <i>Colletotrichum graminicola</i><sup>c</sup></p>	Field Corn (including field corn grown for seed)	62.5 – 125	13.5 – 27.0	0.081 – 0.162	
	Popcorn	62.5 – 125	7.41 – 14.8	0.045 – 0.091	
	Sweet Corn	62.5 – 125	7.20 – 14.4	0.043 – 0.087	

<sup>a</sup> Rate is calculated based on number of seeds / kg averages of field corn (3706) popcorn (6748) and sweet corn (6944).

<sup>b</sup> Use the higher rate of 20.8 mL/100 kg seed for improved control of seed rot / pre-emergence damping-off of corn caused by soil-borne *Fusarium* spp., when heavy disease pressure is anticipated, or for use on highly susceptible hybrids.



° Application at the higher labelled rates may lead to the suppression of anthracnose stalk rot caused by seed borne *Colletotrichum graminicola* later in the growing season. Use the highest rate only when heavy disease pressure is anticipated.

## TANK-MIXTURES

For control of certain insect pests and/or additional diseases not on the PTZ 480SC Seed Treatment Fungicide product label, PTZ 480SC Seed Treatment Fungicide may be combined with certain seed treatment insecticides and fungicides.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

CROP	TANK-MIX PARTNER
Dry Bean Pea (dried and field) Chickpea Lentil	Trilex AL
Soybean	Trilex AL Stress Shield 600 Acceleron IX-409 Insecticide Seed Treatment Allegiance FL Acceleron DX-309 Fungicide Seed Treatment
Corn (field, sweet, popcorn)	Allegiance FL (except popcorn) Acceleron DX-309 Fungicide Seed Treatment (except popcorn) Poncho 600 Trilex FS EverGol Xtend C
Wheat, barley, oats & rye for export only	Allegiance FL

## Section 10: Application Cautions

**SEED QUALITY:** Lab and field studies have shown that PTZ 480SC Seed Treatment Fungicide-treated seed can be stored without loss in germination or disease performance. Many seed types are prone to mechanical damage during seed handling, and a reduction in germination within a seed lot can occur should handling cause seed damage irrespective of seed treatment application. PTZ 480SC Seed Treatment Fungicide-treated or untreated seed may drop in germination with age and germination drops are accelerated under adverse storage conditions or in seed with a high level of mechanical damage. Use handling equipment designed to minimize mechanical damage when moving seed. Due to seed quality and seed storage conditions beyond the control of Bayer CropScience, no claims are made to guarantee the germination of carry-over seed or propagating materials for all crop seed. Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment.

**COLOURATION OF TREATED SEED:** This product contains no pigment and will not colour the treated seed. However, users are responsible for ensuring that the treated seed, when dried and ready for bagging, storage or seeding, has an unnatural colour. Additional colourant must be added to the mixture while treating the seed. Regulations pertaining to colouration of treated seed enforced under the *Seeds Act* must be strictly adhered to when using this product.

**SEED TREATMENT AND INOCULANTS:** PTZ 480SC Seed Treatment Fungicide is compatible with *Rhizobium*-based inoculants. Please check with inoculant manufacturers for further details prior to use. Mixing with inoculants may increase drying time while treating, extending the processing time.

## Section 11: Use Limitations

### USE RESTRICTIONS:

- Treated seed must not be used for food, feed or oil processing.

## Section 12: Resistance Management Recommendations

For resistance management, please note that PTZ 480SC Seed Treatment Fungicide contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to PTZ 480SC Seed Treatment 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. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of PTZ 480SC Seed Treatment Fungicide or other Group 3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and 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.
- Monitor fungal populations for resistance development. Notify Bayer CropScience Inc. if reduced sensitivity of the pathogen to PTZ 480SC Seed Treatment Fungicide is suspected. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens. For further information and to report suspected resistance, contact Bayer CropScience Inc. at 1-888-283-6847 or at [www.cropscience.bayer.com](http://www.cropscience.bayer.com).