

2024-6576

2025-05-01

Container Label

GROUP	11	FUNGICIDE
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**BAS 500 F ST**  
**Fungicide Seed Treatment**

**SUSPENSION CONCENTRATE**

For seed treatment use in barley, corn (all types), wheat, canola, canola quality *Brassica juncea*, mustard (oilseed and condiment) and soybeans

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENT:** Pyraclostrobin ..... 200 g/L

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, each at 0.005%, as preservatives **OR**

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, each at 0.0088% and 2-bromo-2-nitropropane-1,3-diol at 0.024%, as preservatives **OR**

Contains 1,2-benzisothiazolin-3-one at 0.019%, 2-methyl-4-isothiazolin-3-one at 0.0088% and 2-bromo-2-nitropropane-1,3-diol at 0.024%, as preservatives **OR**

Contains 1,2-benzisothiazolin-3-one at 0.0088%, 2-methyl-4-isothiazolin-3-one at 0.0092%, 2-bromo-2-nitropropane-1,3-diol at 0.024% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0011%, as preservatives **OR**

Contains 1,2-benzisothiazolin-3-one at 0.0400%, 2-methyl-4-isothiazolin-3-one at 0.0004%, 2-bromo-2-nitropropane-1,3-diol at 0.0240% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0011%, as preservatives

Warning, contains the allergen soy

**REGISTRATION NO. 30182**

**PEST CONTROL PRODUCTS ACT**



**CAUTION**

**POISON**

**SKIN IRRITANT**

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING**  
**KEEP OUT OF REACH OF CHILDREN**

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY**  
**INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,**  
**1-800-454-2673**

**NET CONTENTS:** 0.1 L – 1000 L

BASF Agricultural Solutions Canada Inc.  
510 - 28 Quarry Park Blvd. SE  
Calgary, Alberta T2C 5P9  
1-877-371-2273

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
3. Harmful if swallowed. Do not take internally.
4. May irritate the skin. Avoid contact with eyes, skin and clothing.
5. Wash thoroughly after handling and before eating, drinking or smoking.
6. During mixing, loading, calibrating, application, bagging/stacking, cleaning/repairing treatment equipment and when handling treated seeds workers must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate) and shoes plus socks. When planting treated seeds, workers must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate) and shoes plus socks.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean equipment thoroughly after use.
9. DO NOT plant more than 8,000 kg of treated wheat or barley seeds per day without using a closed cab planter. All workers outside the closed cab during planting must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.
10. When planting corn and soybean seeds, a closed cab planter is required at all times. All workers outside the closed cab must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.
11. For use in commercial seeds treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. Use of an open transfer system is allowed when treating seeds on-farm only.

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## **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 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.

**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.

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

## **TOXICOLOGICAL INFORMATION**

The patient should be treated symptomatically.

## **STORAGE**

1. Store in original tightly closed container. Protect from freezing.
2. Store this product away from food and feed.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

## **DISPOSAL**

### **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 spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

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**For Returnable-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 reuse this container for any other purpose.

**For Non-Returnable Containers**

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

For information on the 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.

**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.

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Booklet

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**BAS 500 F ST**  
**Fungicide Seed Treatment**

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**NET CONTENTS:** 0.1 L – 1000 L

BASF Agricultural Solutions Canada Inc.  
510 - 28 Quarry Park Blvd. SE  
Calgary, Alberta T2C 5P9  
1-877-371-2273

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## GENERAL INFORMATION

**BAS 500 F ST** is a broad spectrum fungicide that provides preventative seed and seedling protection against the seed- and soil-borne pathogens including *Rhizoctonia* in corn. In wheat and barley, **BAS 500 F ST** protects against diseases caused by seed- and soil-borne pathogens including *Cochliobolus* and soil-borne *Fusarium*. **BAS 500 F ST** protects canola and oilseed mustard from key seed- and soil-borne pathogens such as *Fusarium*, *Rhizoctonia*, *Alternaria* and *Leptosphaeria*. In soybeans, **BAS 500 F ST** protects against diseases caused by seed- and soil-borne *Fusarium* and *Rhizoctonia*. Make all applications according to the use directions in this label. Use the high rate of **BAS 500 F ST** when disease pressure is expected to be high.

## APPLICATION INSTRUCTIONS

**BAS 500 F ST** can be used by commercial treatment facilities and for use in on-farm standard gravity flow or mist type treatment machines. **BAS 500 F ST** can also be used in “On the Go” air seeder treatments systems.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
3. Harmful if swallowed. Do not take internally.
4. May irritate the skin. Avoid contact with eyes, skin and clothing.
5. Wash thoroughly after handling and before eating, drinking or smoking.
6. During mixing, loading, calibrating, application, bagging/stacking, cleaning/repairing treatment equipment and when handling treated seeds workers must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate) and shoes plus socks. When planting treated seeds, workers must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate) and shoes plus socks.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean equipment thoroughly after use.
9. DO NOT plant more than 8,000 kg of treated wheat or barley seeds per day without using a closed cab planter. All workers outside the closed cab during planting must wear long-

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sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.

10. When planting corn and soybean seeds, a closed cab planter is required at all times. All workers outside the closed cab must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.
11. For use in commercial seeds treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. Use of an open transfer system is allowed when treating seeds on-farm only.

## 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 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.

**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.

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

## TOXICOLOGICAL INFORMATION

The patient should be treated symptomatically.

## STORAGE

1. Store in original tightly closed container. Protect from freezing.

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2. Store this product away from food and feed.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

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## **DISPOSAL**

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2. Make the empty, rinsed 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-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 reuse this container for any other purpose.

### **For Non-Returnable containers**

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

For information on the 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

## **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**

Apply **BAS 500 F ST** as a water-based mixture using standard slurry or mist-type seed treatment application equipment. The exact amount of water needed to provide the mixture or slurry rate (mL/100 kg of seed) for optimum coverage is difficult to predict since weather conditions, hot or cold, seed type and surface and equipment used all have a bearing on coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop seed to be treated with **BAS 500 F ST**. The required amount of **BAS 500 F ST** should then be diluted with the recommended amount of water that will provide uniform and complete coverage on the seed surface. Uniform application on seed and complete seed coverage are necessary for seed safety and best disease protection. Seed should be sound and well cleaned prior to treatment. The purchaser of **BAS 500 F ST** 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.

**CEREAL CROPS**

<b>Crop</b>	<b>Target Disease</b>	<b>Product use rate in mL/100 kg seed (kg ai/100 kg seed)</b>
Barley	Control of seed rot caused by <i>Cochliobolus sativus</i> Suppression of seed rot caused by soil-borne <i>Fusarium spp.</i>	25 (0.005)
Wheat	Control of seed rot caused by <i>Cochliobolus sativus</i> Suppression of seed rot caused by soil-borne <i>Fusarium spp.</i>	25 (0.005)

**CORN**

<b>Crop</b>	<b>Target Disease</b>	<b>Product use rate in mL/100 kg seed (kg ai/100 kg seed)</b>
Corn (Field, pop, sweet, corn for seed production)	Control of seed rot caused by <i>Rhizoctonia solani</i>	25 – 50 (0.005 – 0.01) Use the high rate when disease pressure is expected to be high.
For control of additional diseases in corn, <b>BAS 500 F ST</b> may be mixed with the following products: <ul style="list-style-type: none"> <li>• Apron XL LS Fungicide</li> <li>• Allegiance FL</li> <li>• Maxim XL Seed Treatment Fungicide</li> </ul>		

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- Maxim 480 FS Colourless Seed Treatment

**CANOLA AND OILSEED MUSTARD**

<b>Crop</b>	<b>Target Disease</b>	<b>Pathogen</b>	<b>Product use rate in mL/100 kg seed (kg ai/100 kg seed)</b>
Canola <i>Brassica juncea</i> Canola oil quality mustards	Control of seed rot (pre-emergence damping-off), seedling blight and post-emergent damping-off  Suppression of root rot	<i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	50 (0.01)
	Control of seed-borne blackleg ( <i>Leptosphaeria maculans</i> )		
	Control of seed-borne Alternaria spot ( <i>Alternaria spp.</i> )		
For control of additional diseases (i.e. <i>Pythium spp.</i> ) in canola, <b>BAS 500 F ST</b> may be mixed with the following products: <ul style="list-style-type: none"> <li>• Apron XL LS Fungicide</li> <li>• Allegiance FL</li> </ul>			

**SOYBEAN**

<b>Crop</b>	<b>Target Disease</b>	<b>Pathogen</b>	<b>Product use rate in mL/100 kg seed (kg ai/100 kg seed)</b>
Soybean	Control of seed rot (pre-emergence damping-off) and seedling blight  Suppression of root rot	<i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	25 – 50 (0.005 – 0.01)  Use the high rate when disease pressure is expected to be high.
For control of additional diseases (i.e. <i>Pythium spp.</i> ) in soybean, <b>BAS 500 F ST</b> may be mixed with the following products: <ul style="list-style-type: none"> <li>• Apron XL LS Fungicide</li> <li>• Allegiance FL</li> </ul>			

**TANK MIXES**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank

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mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact BASF Agricultural Solutions Canada Inc. (BASF™) at 1-877-371-2273 for information before applying any tank mix that is not specifically recommended on this label.

## USE RESTRICTIONS

- Do not use treated seed for food, feed or oil processing.
- Do not store **BAS 500 F ST** near feed or foodstuffs.
- Do not contaminate feed or foodstuffs.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Any seed treated with this product must be either thoroughly stained with a conspicuous colour or coated with a material that renders it conspicuous. **BAS 500 F ST** is sold only to individuals who can comply with these requirements. Regulations pertaining to the coloration of treated seed enforced under the "Seeds Act" must be strictly adhered to when using this product.

## SEED LABELLING

TREATED SEED MUST BE LABELLED AS FOLLOWS:

"This seed has been treated with **BAS 500 F ST** containing pyraclostrobin. **DO NOT** use for food, feed or oil processing".

Thoroughly clean auger after handling treated seed before using same auger for handling commercial or feed grains.

Leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed.

Store treated seed in cool, dry conditions.

When planting treated seeds, workers must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate) and shoes plus socks.

**DO NOT** plant more than 8,000 kg of treated wheat or barley seeds per day without using a closed cab planter. All workers outside the closed cab during planting must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a

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NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.

When planting corn and soybean seeds, a closed cab planter is required at all times. All workers outside the closed cab must wear long-sleeved shirt and long pants, coveralls, chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate), shoes plus socks and a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

### Mode of Action

The active ingredient in **BAS 500 F ST**, pyraclostrobin, belongs to the group of respiration inhibitors classified by FRAC as **Quinone Outside Inhibitors (QoI)** or **Target Site of Action Group 11** fungicides. Due to the minimal amounts of **BAS 500 F ST** applied to the seed that relocate to the upper parts of the plant, the potential for development of resistance is low.

### Resistance Management

**BAS 500 F ST** contains pyraclostrobin, a Group 11 fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of QoI fungicides (Target site Group 11), such as for example dicarboximides, sterol inhibitors, benzimidazoles, or phenylamides. Fungal isolates with acquired resistance to Group 11 fungicides, such as pyraclostrobin, azoxystrobin, trifloxystrobin, and kresoxim-methyl, may eventually dominate the fungal population if Group 11 fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species. This may result in reduction of disease control by **BAS 500 F ST** or other Group 11 fungicides.

The following recommendations may be considered to delay the development of fungicide resistance:

1. **Applications:** Adhere to the label instructions regarding the consecutive use of **BAS 500 F ST** or other target site of action Group 11 fungicides that have a similar site of action on the same pathogens. To maintain the performance of **BAS 500 F ST** in the field, do not exceed the total number of sequential applications of Headline and the total number of applications of **BAS 500 F ST** per season as stated below in the Restrictions and Limitations table.
2. **IPM:** **BAS 500 F ST** should be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. Consult your local extension specialist, certified crop advisor and/or BASF for additional IPM strategies established for your area. **BAS 500 F ST** may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favourable for disease development.

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3. **Monitor:** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.
4. **Reporting:** If a Group 11 target site fungicide, such as **BAS 500 F ST**, appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a BASF representative at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca), local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance.