

2024-6576

2025-05-01

GROUP	7	11	FUNGICIDE
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**BAS 516 F ST**  
**Fungicide Seed Treatment**

**SUSPENSION**

For seed treatment use in canola and canola-quality *Brassica juncea*, chickpea, field pea, lentil, soybean and dry bean

**COMMERCIAL (AGRICULTURAL)**

**GUARANTEE:** Boscalid..... 200 g/L  
Pyraclostrobin ..... 100 g/L

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, each at 0.0045%, as preservatives

**OR**

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 0.007%, and 2-bromo-2-nitropropane-1,3-diol at 0.012%, as preservatives

**OR**

Contains 1,2-benzisothiazolin-3-one at 0.012%, 2-methyl-4-isothiazolin-3-one at 0.007%, and 2-bromo-2-nitropropane-1,3-diol at 0.012%, as preservatives

**OR**

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, each at 0.007%, 2-bromo-2-nitropropane-1,3-diol at 0.012%, and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0005%, as preservatives

Warning, contains the allergen soy

**REGISTRATION NO. 30184****PEST CONTROL PRODUCTS ACT****READ THE LABEL AND BROCHURE BEFORE USING****KEEP OUT OF REACH OF CHILDREN****POTENTIAL SKIN SENSITIZER**

**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

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## GENERAL INFORMATION

**BAS 516 F ST** is a broad spectrum fungicide that provides preventative seed protection against seed rot caused by *Rhizoctonia solani* and *Fusarium* spp. in canola and diseases in chickpea, field pea, lentil, soybean and dry bean. Make all applications according to the use directions in this label. Use the higher rate of **BAS 516 F ST** when disease pressures are expected to be high, or if there is a history of high disease pressures in the field.

## DIRECTIONS FOR USE

### For use at commercial treatment facilities

Apply **BAS 516 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 516 F ST**. The required amount of **BAS 516 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 516 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.

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

## CROP SPECIFIC RECOMMENDATIONS FOR SEED TREATMENT

### Canola and Canola Quality Brassica Juncea

Crop	Target Disease	Product use rate in mL/100 kg seed (kg ai/100 kg seed)
Canola and canola-quality <i>Brassica juncea</i>	Control of seed rot caused by <i>Fusarium</i> and <i>Rhizoctonia</i>	100 - 200 (0.03 - 0.06)  Use the high rate when disease pressure is expected to be high.

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For control of seed rot and seedling blight caused by *Pythium spp.* in canola, **BAS 516 F ST** may be mixed with the following products:

- Apron XL LS Fungicide
- Allegiance FL

For control of flea beetle in canola, **BAS 516 F ST** may be mixed with either of the following products:

- Vault 50 FS Insecticide Seed Treatment
- Poncho 600 FS Seed Treatment Insecticide

Please read and follow all label guidelines (including precautions, limitations, rates and directions for use) for all mix partners.

**Chickpea, Field Pea, Lentil, Soybean and Dry Bean**

Crop	Target Diseases Controlled or Suppressed	Product use rate in mL/100 kg seed (kg ai/100 kg seed)
Chickpea, field pea, lentil, soybean and dry bean	Seed rot and seedling blight caused by <i>Fusarium spp.</i>	50 (0.015)
	Seed rot and seedling blight caused by <i>Rhizoctonia solani</i>	
Seedling blight caused by <i>Ascochyta spp.</i> (field peas, lentils and chickpeas)		
Seedling blight and root rot caused by <i>Colletotrichum spp.</i> (lentils and dry beans)		
Seed rot and seedling blight caused by <i>Botrytis spp.</i> (lentils and chickpea)		
	Suppression of root rot caused by <i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	50 (0.015)

For control of seed rot and seedling blight caused by *Pythium spp.* in chickpea, field pea, lentil, soybean and dry bean. **BAS 516 F ST** may be mixed with the following products:

- Apron XL LS Fungicide
- Allegiance FL

Please read and follow all label guidelines (including precautions, limitations, rates and directions for use) for all mix partners.

**USE RESTRICTIONS**

- Do not use treated seed for food, feed or oil processing.
- Do not store **BAS 516 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.

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Any seed treated with this product must be either thoroughly stained with a conspicuous color or coated with a material that renders it conspicuous. **BAS 516 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 516 F ST** containing pyraclostrobin and boscalid. 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.

Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

### Mode of Action

The active ingredients in **BAS 516 F ST**, pyraclostrobin and boscalid, belong to two groups. Pyraclostrobin belongs to the group of respiration inhibitors classified by FRAC as Quinone Outside Inhibitors (QoI) or Target Site of Action Group 11 fungicides. Boscalid belongs to the group of respiration inhibitors classified by FRAC as Carboxamide or Target Site of Action Group 7 fungicides.

### Resistance Management

**BAS 516 F ST** contains two active ingredients: pyraclostrobin, a Group 11 fungicide, effective against pathogens resistant to fungicides with modes of action different from those of QoI fungicides (Target site Group 11); and boscalid, a Group 7 fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of Carboxamide fungicides (Target site Group 7). Fungal isolates with acquired resistance to Group 11 and 7 fungicides may eventually dominate the fungal population if Group 11 and/or 7 fungicides are used predominantly and repeatedly in the same field in successive years as the primary method

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of control for the targeted pathogen species. This may result in reduction of disease control by **BAS 516 F ST** or other Group 11 and/or 7 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 516 F ST** or other target site of action Group 11 or 7 fungicides that have a similar site of action on the same pathogens.
2. **IPM: BAS 516 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 Agricultural Solutions Canada Inc. ("BASF") for additional IPM strategies established for your area. **BAS 516 F ST** may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favourable for disease development.
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 and/or 7 target site fungicide, such as **BAS 516 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.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed. Do not take internally.
3. Potential skin sensitizer. Avoid contact with eyes, skin and clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. 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.

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6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean equipment thoroughly after use.
8. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
9. When treating seed in commercial seed treatment facilities, closed transfer including closed mixing, loading, calibrating, and closed treatment equipment must be used. Use of an open transfer system is allowed when treating seed on-farm only.
10. When planting chickpea, field pea, lentil, soybean and dry bean seeds, a closed cab planter is required at all times. 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.

#### **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.

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## **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms.

## **STORAGE**

1. Store in original tightly closed container. Protect from freezing.
2. To prevent contamination, store this product away from food or 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:

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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.

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

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.

**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.

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**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. The user assumes the risk to persons or property that arises from any such use of this product.

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**PEST CONTROL PRODUCTS ACT**

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