

2024-1648  
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This label has been updated according to the re-evaluation decision for *Bacillus amyloliquefaciens* strain MBI 600 and *Bacillus subtilis* strain QST 713, RVD2024-02. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 01-29-2026 in accordance with the phase out period set out in the re-evaluation decision for *Bacillus amyloliquefaciens* strain MBI 600 and *Bacillus subtilis* strain QST 713, RVD2024-02. This previously approved label will be provided upon request by emailing [hc.pmra.info-arla.sc@canada.ca](mailto:hc.pmra.info-arla.sc@canada.ca). In your email please include the product name and Registration number of the label you are requesting.

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<b>GROUP</b>	<b>BM02</b>	<b>FUNGICIDE</b>
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**BAS 154 U ST**  
Liquid Biological Fungicide

LIVE ORGANISMS

For seed treatment use in soybean.

**COMMERCIAL**

**ACTIVE INGREDIENT:**

*Bacillus subtilis* strain BU1814 (not less than  $1.4 \times 10^9$  CFU/mL)

*Bacillus amyloliquefaciens* strain MBI 600 (not less than  $1.4 \times 10^{10}$  CFU/mL)

**POTENTIAL SENSITIZER**

**REGISTRATION NUMBER: 33252 PEST CONTROL PRODUCTS ACT**

**READ THE LABEL 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**

Date of manufacture:

**NET CONTENTS:** 100 mL - 1000L

BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2nd Floor  
Mississauga, Ontario L4W 0B6  
Telephone No.: 1-877-371-2273

Seed Treatment: This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed when dried and ready for bagging has an unnatural colour.

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**BAS 154 U ST**  
Liquid Biological Fungicide

**General Information:**

**BAS 154 U ST** is a seed applied biological fungicide for the partial suppression or suppression of seedling diseases caused by *Fusarium* spp., *Rhizoctonia solani* and *Pythium ultimum* in soybean.

**DIRECTIONS FOR USE:**

**DO NOT apply using aerial application equipment.**

Shake or agitate thoroughly before use.

Apply **BAS 154 U ST** through suitable commercial and on-farm seed treating equipment. If used alone, slowly add **BAS 154 U ST** to sufficient water and colourant for good seed coverage. Continue mixing until uniform.

If used in combination, add the required amount of the chemical seed treatment first, then slowly add **BAS 154 U ST** to the solution and continue mixing until uniform. Do not store mixed solutions for longer than 72 hours before applying to the seed.

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

Seed Treatment: This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed when dried and ready for bagging has an unnatural colour.

**APPLICATION RATE:**

Crop	Target Diseases	Product use rate
Soybean	For partial suppression of seed rot, pre and post emergent damping-off, seedling blight, and root rot caused by <i>Fusarium</i> spp..	4.4 mL/100 kg seed based on 6172 seeds/kg
	For partial suppression of seed rot, pre and post emergent damping-off, and seedling blight caused by <i>Pythium ultimum</i> .	(1mL / 140,000 seeds)
	For suppression of seedling blight caused by <i>Rhizoctonia solani</i> .	
	For partial suppression of seed rot, pre and post emergent damping-off and seedling root rot caused by <i>Rhizoctonia solani</i> .	

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Adjust these rates as needed for other seed sizes, maintaining a minimum rate of 0.0071 µL **BAS 154 U ST** per seed (density ≈ 1.166 g per mL).

### General Tank Mixing Information

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 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 Canada at 1-877-371-2273 for information before applying any tank mix that is not specifically recommended on this label.

### LABELING OF TREATED SEED

All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: This seed has been treated with BAS 154 U ST which contains *Bacillus amyloliquefaciens* strain MBI 600 and *Bacillus subtilis* strain BU1814. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs. When planting or handling treated seed, workers must wear a long-sleeved shirt, long pants, waterproof gloves, socks and shoes and a NIOSH approved particulate filtering facepiece respirator with any N, R, or P filter. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

### PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN. May cause sensitization. Avoid contact with skin, eyes or clothing. Avoid inhaling of spray mist or breathing dust from treated seeds. Wear a long-sleeved shirt, long pants, waterproof gloves, shoes with socks, as well as a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter when handling, mixing/loading or applying the product and during all clean-up/repair activities. For all other activities involving the handling of treated seeds (e.g. bagging, stacking), workers should wear a long-sleeved shirt, long pants, waterproof gloves and sock and shoes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

When tank mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

For use with commercial seed treaters (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of **BAS 154 U ST** is permitted.

Do not apply in a way that this product will contact workers or other persons either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area where treatment is taking place during application or when seed is being treated or bagged.

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## **ENVIRONMENTAL PRECAUTIONS**

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

### **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:**

Treat symptomatically.

### **Storage:**

**BAS 154 U ST** should be used within 2 years from the date of manufacture when stored at 20°C. Store this product away from food or feed.

### **DISPOSAL:**

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** reuse this container for any other purpose.

For recyclable containers: **DO NOT** reuse this container for any other 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, 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.

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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.

**Seed Storage:**

Due to seed quality and seed storage conditions beyond the control of BASF, no claims are made to guarantee the germination of carryover seed.

**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.