

Label

F4034-5 Biological Fungicide

SUSPENSION LIVE ORGANISM

COMMERCIAL

Biological fungicide for seed treatment use for early season protection for the partial suppression of certain fungal diseases in labelled crops.

Active Ingredients:	By Wt.
<i>Bacillus velezensis</i> strain RTI301*	7.5%
<i>Bacillus subtilis</i> strain RTI477**	2.5%
Other Ingredients:.....	90.0%
	100.00%

*Contains a minimum of 1.5×10^{10} colony-forming units (cfu) per millilitre.

**Contains a minimum of 1.15×10^9 colony-forming units (cfu) per millilitre.

This product contains a total of 110 grams of active ingredient per litre.

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

POTENTIAL SENSITIZER

REGISTRATION NO. 34102 PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1L – 1000L**

Date of Manufacture: _____

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

F4034-5 Biological Fungicide 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.

2023-0431
2023-07-27

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.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS. May cause sensitization. Avoid contact with eyes, skin or clothing. Avoid breathing in dust or mist. Wear a long-sleeved shirt, long pants, shoes with socks, water-proof gloves and NIOSH approved particulate filtering facepiece respirator with any N, R or P filter when handling and during all clean-up and repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL PRECAUTIONS:

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.

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.

COLOURING OF TREATED SEED

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LABELLING OF TREATED SEED

All bags containing treated seed must be labelled or tagged as follows:

General Information

KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.

- This seed has been treated with F4034-5 Biological Fungicide which contains *Bacillus velezensis strain RTI 301 and Bacillus subtilis strain RTI477*. Do not use for feed, food or oil processing. Augers used for handling treated seed should not be used to move seed for feed, food or oil processing. Do not re-use bags from treated seed to handle food or feed products Store away from feeds and other foodstuffs.
- When planting or handling treated seed, avoid contact with eyes, skin or clothing and avoid inhaling/breathing in dust, workers must wear a long-sleeved shirt, long pants, water-proof gloves, shoes with socks and a NIOSH approved particulate filtering facepiece respirator with any N, R or P filter. For planters and handlers using closed systems, the requirements for water-proof gloves and respirator may be waived. However, this equipment must be immediately available for use in emergency such as a spill or equipment breakdown.
- All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: **Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.**

STORAGE:

To prevent contamination, store this product away from food or feed. Store in a dry area inaccessible to children. Store in a cool, dry place. Store in original container only. Keep container closed when not in use. F4034-5 Biological Fungicide should be stored below 25°C. DO NOT freeze. This product should be used within 24 months from the date of manufacture.

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.

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

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 returnable container:

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

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.

IN CASE OF EMERGENCY CONTACT 1-800-331-3148 (24 HOURS).

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GENERAL INFORMATION:

F4034-5 Biological Fungicide is a biological fungicide for seed treatment that provides early season protection of seedlings against *Rhizoctonia solani* and *Fusarium* spp. in a variety of crops.

DIRECTIONS FOR USE:

Seed Treatment Equipment:

Product can be applied to seed placed in a jug (less than 40% full) with appropriate slurried volume of product applied to the side of the jug and the seed in the jug swirled until uniform coverage is achieved. Specialized treating equipment design for treating smaller volumes of seed such as Norogard or Hege treater or drum treaters can also be used to apply product to seed.

Seed should be sound and well-cured before treatment. Refer to the label rates under APPLICATION INSTRUCTIONS. Product should be slurried with adequate cool non-chlorinated water to ensure uniform coverage. F4034-5 Biological Fungicide is typically diluted with water and/or mixed with other products to attain an appropriate slurry application volume to provide effective treating. The appropriate volume of slurry depends on crop, weather, type of treater and other factors and should be adjusted as per normal treating practices for the circumstances.

F4034-5 Biological Fungicide plus water and/or other treatments should be mixed thoroughly prior to treating seed.

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- When planting or handling treated seed, workers must wear a long-sleeved shirt, long pants, water-proof gloves, shoes with socks and a NIOSH approved particulate filtering facepiece respirator with any N, R or P filter. For planters and handlers using closed systems, the requirements for water-proof gloves and respirator may be waived. However, this equipment must be immediately available for use in emergency such as a spill or equipment breakdown.
- All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: **Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.**

TANK MIX INSTRUCTIONS:

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 FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

APPLICATION INSTRUCTIONS:

CORN	
CROPS	Corn (field, sweet, pop and corn grown for seed)
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp.
USE RATE	3 to 6.4 mL/unit (80,000 seeds). Use higher rate for seed rot/seedling blight caused by <i>Fusarium</i> spp.
SOYBEAN	
CROPS	Soybean
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Partial suppression of sudden death syndrome (SDS) of soybean (<i>Fusarium virguliforme</i>)
USE RATE	5 to 11.2 mL/unit (140,000 seeds). Use the high rate for SDS and seed rot/seedling blight

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	caused by <i>Fusarium</i> spp.
SUNFLOWER	
CROPS	Sunflower
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i>
USE RATE	4 to 8 mL/unit (100,000 seeds)
USE DIRECTIONS (ALL CROPS)	
APPLICATION DIRECTIONS	Apply as a seed treatment prior to planting.
TANK-MIXTURES	<p>F4034-5 Biological Fungicide may be applied in mixture with other registered seed treatment products, including HELIX, Maxim 480FS, Allegiance FL, Apron XL LS and Apron MAXX RFC. Do not use with other seed treatment products unless compatibility has been first verified. Read and follow carefully all label directions of each combination product. When using combinations of products, the most restrictive of label limitations and precautions must be followed.</p> <p>Check with the manufacturer on the compatibility of F4034-5 Biological Fungicide with any tank mix product and do not exceed the recommended maximum length of storage before seed application of any tank mix. Ensure compatibility and recommended maximum length of any tank mix from the manufacturer before mixing.</p>

USE RESTRICTIONS:

To ensure uniformity, mix product well before use. Care must be exercised in the handling of treated seed. Augers used for handling treated seed should not be used to move seed for feed, food or oil processing. Do not re-use bags from treated seed to handle food or feed products.

Treatment of mechanically damaged seed or seed of low vigor or poor quality may result in reduced germination. Treat and conduct germination tests on a small test sample of seed before using this product on commercial quantities. Due to seed quality and seed storage conditions beyond the control of FMC, FMC makes no claims or guarantees as to germination of carry-over seed.

®/™ F4034-5 Biological Fungicide is a trademark of FMC Corporation or an affiliate.
All other products listed are trademarks of their respective companies.