

Container label



VIKING™ Grimstad Seed Treatment Fungicide

GROUP	11 4	FUNGICIDE
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SUSPENSION

COMMERCIAL (AGRICULTURAL)

VIKING Grimstad Seed Treatment Fungicide provides seed and seedling protection from seed and soil-borne diseases caused by *Rhizoctonia solani*, *Fusarium* spp., *Pythium* spp., *Ascochyta* spp., *Botrytis cinerea* and *Phomopsis longicolla* on labeled crops.

REGISTRATION NO. 34970 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:

Trifloxystrobin 13.5 g/L

Metalaxyl 10.8 g/L

Contains 1,2-benzisothiazolin-3-one at 0.02% as a preservative.

NET CONTENTS: 0.946L, 1L, 10L, 100L, 200L, 1000L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING

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.

In case of emergency call the 24 hour Emergency Response Number 1-800-424-9300 or 1-703-527-3887

Viking Crop Production Partners Inc.

Box 18033

RPO Shawnessy

Calgary, AB. T2Y 0K3

1-587-743-1029

Viking (TM) is a trademark of Viking Crop Production Partners Inc.

GENERAL INFORMATION

VIKING Grimstad Seed Treatment Fungicide is a ready-to-use seed treatment formulation containing the fungicides trifloxystrobin and metalaxyl. **VIKING Grimstad Seed Treatment Fungicide** provides seed and seedling protection from certain seed and soil-borne diseases caused by *Rhizoctonia solani*, *Fusarium* spp., *Pythium* spp., *Ascochyta* spp., *Botrytis cinerea* and *Phomopsis longicolla* on labeled crops.

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- All workers (treater, cleaner, repair, maintenance, bagger, sewer, stacker, forklift operator and others) must wear: a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. In addition, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.
- During planting of treated seed (including loading, sowing, maintenance, and clean-up), wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during planting within a closed cab.
- Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
- Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.
- All containers and packages containing treated seed for sale or use in Canada must be labeled or tagged as follows: "This seed has been treated with **VIKING Grimstad Seed Treatment Fungicide** containing trifloxystrobin and metalaxyl. During planting of treated seed (including loading, sowing, maintenance, and clean-up), wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during planting within a closed cab. 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 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:

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

ENVIRONMENTAL PRECAUTIONS:

- Toxic to aquatic organisms.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. DO NOT store below 0° C. This product cannot be frozen and must be placed in a heated or adequately insulated area to avoid sub-zero temperatures. Store in a cool, dry place and avoid excessive heat. Keep container closed. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment.

DISPOSAL:**FOR NON-RETURNABLE CONTAINERS:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction 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/territorial 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 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/territorial 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 reuse 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 **VIKING Grimstad 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 **VIKING Grimstad 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/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.

Booklet Label



VIKING™ Grimstad Seed Treatment Fungicide

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GENERAL INFORMATION

Section 1: The Product

VIKING Grimstad Seed Treatment Fungicide is a ready-to-use seed treatment formulation containing the fungicides trifloxystrobin and metalaxyl. **VIKING Grimstad Seed Treatment Fungicide** provides seed and seedling protection from certain seed and soil-borne diseases caused by *Rhizoctonia solani*, *Fusarium* spp., *Pythium* spp., *Ascochyta* spp., *Botrytis cinerea* and *Phomopsis longicolla* on labeled crops.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- All workers (treater, cleaner, repair, maintenance, bagger, sewer, stacker, forklift operator and others) must wear: a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. In addition, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.
- During planting of treated seed (including loading, sowing, maintenance, and clean-up), wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during planting within a closed cab.
- Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
- Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.
- All containers and packages containing treated seed for sale or use in Canada must be labeled or tagged as follows: "This seed has been treated with **VIKING Grimstad Seed Treatment Fungicide** containing trifloxystrobin and metalaxyl. During planting of treated seed (including loading, sowing, maintenance, and clean-up), wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during planting within a closed cab. 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 surface.

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 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:

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

ENVIRONMENTAL PRECAUTIONS:

- Toxic to aquatic organisms.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Section 5: Storage

Store product in original container only, away from other pesticides, fertilizer, food or feed. DO NOT store below 0° C. This product cannot be frozen must be placed in a heated or adequately insulated area to avoid sub-zero temperatures. Store in a cool, dry place and avoid excessive heat. Keep container closed. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment.

Section 6: Disposal

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial 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/territorial 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:

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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 reuse 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 **Grimstad 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 **VIKING Grimstad Seed Treatment Fungicide** and rinse water in the applicator taprior 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/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

Section 7: Notices

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

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

Section 8: Pests Controlled

VIKING Grimstad Seed Treatment Fungicide is a seed treatment formulation containing the fungicides trifloxystrobin and metalaxyl. **VIKING Grimstad Seed Treatment Fungicide** provides seed and seedling protection from seed and soil-borne diseases caused by *Rhizoctonia solani*, *Fusarium* spp., *Pythium* spp., *Ascochyta* spp., *Botrytis cinerea* and *Phomopsis longicolla* on labeled crops.

Section 9: Directions For Use

VIKING Grimstad Seed Treatment Fungicide is a ready-to-use formulation designed for commercial or on-farm treating with conventional seed treating equipment.

CROP	PEST	APPLICATION RATE	DIRECTIONS
Bean (succulent, snap and dry): Includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean, and other coloured beans	Seed decay / pre-emergence damping-off and post-emergence damping-off caused by <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp., and <i>Pythium</i> spp.	Apply 370 mL of VIKING Grimstad Seed Treatment Fungicide per 100 kg of seed	VIKING Grimstad Seed Treatment Fungicide is a ready-to-use formulation designed for commercial or on-farm treating with conventional seed treating equipment which can accurately control application rates and provide a good distribution of the chemical onto the seed in the mixing chamber. Uniform application on seed is necessary to ensure seed safety and best disease protection.
Chickpea Pea (dry and field): Includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea	Seed decay / pre-emergence damping-off and post-emergence damping-off caused by <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp., and <i>Pythium</i> spp. Suppression of seed-borne Ascochyta blight caused by <i>Ascochyta</i> spp.		
Lentil	Seed decay / pre-emergence damping-off and post-emergence damping-off caused by <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp., and <i>Pythium</i> spp. Seed rot / pre-emergence damping-off, post-emergence damping-off and seedling blight caused by <i>Botrytis cinerea</i> (seed-borne) Suppression of seed-borne Ascochyta blight caused by <i>Ascochyta</i> spp.		
Soybean	Seed decay / pre-emergence damping-off and post-emergence damping-off caused by <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp., and <i>Pythium</i> spp. Seed decay / pre-emergence damping-off caused by <i>Phomopsis longicolla</i> .		

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 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 Viking Crop Production Partners Inc. at 1-587-743-1029 for information before applying any tank mix that is not specifically recommended on this label.

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.

Section 10: Application Cautions

If **VIKING Grimstad Seed Treatment Fungicide** is diluted with water by greater than 10% by volume, ensure agitation of the mixture prior to application to seed.

SEED TREATMENT AND INOCULANTS:

VIKING Grimstad Seed Treatment Fungicide is compatible with *Rhizobium*-based inoculants. Please check with inoculant manufacturers for further details prior to use.

SEED QUALITY:

Lab and field studies have shown that **VIKING Grimstad Seed Treatment Fungicide** treated seed can be stored without loss in germination or disease performance. Many large-seed legumes 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. **VIKING Grimstad 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 Viking Crop Production Partners Inc., 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:

Users are responsible for ensuring that the treated seed, when dried and ready for bagging, storage or seeding, has an unnatural colour. 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.

Section 11: Use Limitations

USE RESTRICTIONS:

- Treated seed must not be used for food, feed or oil processing.
- Do not graze or feed livestock on treated areas for four weeks after planting.

ROTATIONAL CROP RESTRICTIONS: Canola, mustard, rapeseed, corn, legumes and cereal grains may be replanted at any time. For all other crops, do not plant back within 30 days of seeding with **VIKING Grimstad Seed Treatment Fungicide** -treated seed.

Section 12: Resistance Management Recommendations

For resistance management, please note that **VIKING Grimstad Seed Treatment Fungicide** contains a Group 11 and Group 4 fungicide. Any fungal population may contain individuals naturally resistant to **VIKING Grimstad Seed Treatment Fungicide** and other Group 11 and 4 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 **VIKING Grimstad Seed Treatment Fungicide** or other Group 11 and 4 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group 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/bactericide applications.
- Monitor fungal populations for resistance development. Notify Viking Crop Production Partners Inc. if reduced sensitivity of the pathogen to **VIKING Grimstad Seed Treatment Fungicide** is suspected.
- 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 or to report suspected resistance, contact Viking Crop Production Partners Inc. at 1-587-743-1029.

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All other products mentioned are trademarks of their respective holders.