

## VERCORAS™ XC Seed Treatment

### SUSPENSION

**A seed treatment for use on canola for the control of early season infection and reduction of disease severity by *Leptosphaeria maculans*, the causal agent of blackleg.**

### COMMERCIAL

ACTIVE INGREDIENT: Fluopyram.....600 g/L

Contains 1,2 benzisothiazolin-3-one at 0.03% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

REGISTRATION NO. 33938 PEST CONTROL PRODUCTS ACT



**CAUTION**

**POISON**

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

NET CONTENTS: 1L - bulk

BASF Canada Inc.  
100 Milverton Drive, 5<sup>th</sup> Floor  
Mississauga, ON L5R 4H1  
Telephone No.: 1-877-371-2273

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

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 as a seed treatment.

For use in commercial seed treatment operations with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment. No open transfer of **VERCORAS XC Seed Treatment** is permitted.

**VERCORAS™** is a trademark of BASF SE used with permission by BASF Canada Inc.

**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. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, treating, bagging, sewing, stacking, operating a fork lift, or maintaining and repairing seed treatment equipment, as well as during handling and planting treated seeds.

**User Safety Recommendations:**

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment (PPE) immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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.

**ENVIRONMENTAL PRECAUTIONS:** TOXIC to birds and small mammals. Treated seed is toxic to birds and small wild mammals. TOXIC to aquatic organisms and non-target terrestrial plants. 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 ground water. The use of **VERCORAS XC Seed Treatment** in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

**STORAGE:** Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment. Store in cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or in temperatures that fall below -10°C. To prevent contamination store this product away from food or feed.

**DISPOSAL:**

**Recyclable Container:**

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.

**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).

**Returnable-Refillable Container:** For disposal, this empty 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 use this container for any other purpose.

**Non-Recyclable/Returnable/Refillable Container:**

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

**Disposal of Unused, Unwanted Product:**

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 cleanup of spills.

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## GENERAL INFORMATION

### SECTION 1: 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.

### SECTION 2: THE PRODUCT

**VERCORAS XC Seed Treatment** is a seed treatment that when applied to seed can control early season infection and reduce disease severity by *Leptosphaeria maculans*, the causal agent of blackleg in canola.

## SAFETY AND HANDLING

### SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

#### PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, treating, bagging, sewing, stacking, operating a fork lift, or maintaining and repairing seed treatment equipment, as well as during handling and planting treated seeds.

#### User Safety Recommendations:

##### User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment (PPE) immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### SECTION 4: 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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

#### SECTION 5: ENVIRONMENTAL PRECAUTIONS

TOXIC to birds and small mammals. Treated seed is toxic to birds and small wild mammals. TOXIC to aquatic organisms and non-target terrestrial plants. 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 ground water. The use of **VERCORAS XC Seed Treatment** in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### SECTION 6: STORAGE

Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment. Store in cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or in temperatures that fall below -10°C.

To prevent contamination store this product away from food or feed.

#### SECTION 7: DISPOSAL

##### **Recyclable Container:**

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**Non-Recyclable/Returnable/Refillable Container:**

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

**Disposal of Unused, Unwanted Product:**

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 cleanup of spills.

**DIRECTIONS FOR USE:**

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

DO NOT apply by air.



**SECTION 8: CROPS AND PESTS**

**8.1 Canola**

<b>Pest</b>	<b>Application Rates (per 100 kg seed)</b>	<b>Product Instructions</b>
Residue or soil-borne Blackleg ( <i>Leptosphaeria maculans</i> )	125 - 250 mL  (0.00375 – 0.0075 mg ai/seed*) *Based on 200,000 seeds per kg (5 grams TSW)	<b>VERCORAS XC Seed Treatment</b> will reduce blackleg infection on the cotyledons and early leaves and will reduce lodging and the degree of stem infection later in the season.  Use the higher rate in situations conducive to greater risk of blackleg disease.
<p>Note: Apply using commercial slurry or mist-type seed treatment equipment. Uniform application of seed is necessary to ensure seed safety and best disease protection. Dilute product with sufficient water to ensure complete seed coverage. Apply to high quality, properly cleaned seeds.</p> <p>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 as a seed treatment.</p>		

**8.2 Tank Mixes**

**VERCORAS XC Seed Treatment** may be used in combination with other registered seed treatment fungicides and insecticides at labelled rates. Pre-test for compatibility with other seed treatment products. Refer to section 10 for pertinent mixing instructions.

Treated seed must be labeled in accordance with the requirements of the *Seeds Act*. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

**SECTION 9: APPLICATION INSTRUCTIONS AND USE LIMITATIONS**

For use in commercial seed treatment (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment. No open transfer of **VERCORAS XC Seed Treatment** is permitted. Not for use in hopper box, planter box, slurry box, or other on-farm seed treatment applications. Read the entire label and observe all label directions and precautions before use.

**9.1 Labelling of Treated Seed**

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

- This seed has been treated with fluopyram.
- Do not use treated seed for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Do not allow children, pets, or livestock to have access to treated seed.
- For all activities involving handling of treated seeds, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
- This product is toxic to birds, small wild mammals, aquatic organisms and non-target terrestrial plants.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.
- Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- Dispose of empty seed packaging or containers in accordance with local requirements. Do not use empty seed bags/containers for any other purpose.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer's recommendations. Surplus seed or empty seed containers should be stored or disposed according to local federal regulations.
- Treated at manufacturer's recommended rate.

## 9.2 Seed Quality and Storage of Treated Seed

Laboratory and field studies have shown that **VERCORAS XC Seed Treatment** applied to canola seed will not adversely affect germination.

Due to seed quality conditions beyond the control of BASF, no claims are made to guarantee germination of carry-over seed. Treatment of mechanically scarred or damaged seed, or of seed known to be of low germ, low vigour and poor quality is not recommended.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of BASF, no claims are made to guarantee germination of carry-over seed.

## 9.3 Rotational Crop Restrictions

Do not replant to alfalfa for 14 days after application. If the treated crop is lost due to environmental conditions and re-seeding is required, all other crops may be replanted immediately.

## SECTION 10: MIXING INSTRUCTIONS

When applied with seed treatment application equipment designed to treat seed utilizing a treatment slurry mixture, add approximately 1/2 to 2/3 of the required water to the treatment slurry tank followed by the accompanying seed treatment products and **VERCORAS XC Seed Treatment**. The order of product addition is dependent on the accompanying seed treatment products and application equipment used. Allow each slurry component to disperse completely prior to the next addition until a uniform suspension is obtained. After all slurry components have been added and dispersed completely add the remaining 1/2 to 1/3 of required water for proper slurry volume and mix until uniform. Do not store mixed slurries for greater than 72 hours. Maintain adequate agitation until treatment slurry is applied. For additional instructions for use, slurry component mixing order, and other application suggestions contact your BASF representative.

### COMPATIBILITY PRE-TEST

It is essential that before using **VERCORAS XC Seed Treatment** seed treatment in any tank mixture the compatibility of the mixture be established. Add **VERCORAS XC Seed Treatment** at the labeled rate to a clean quart jar containing approximately one-half the amount of water intended for a final slurry application rate. Next, follow with all other tank mix components that will be used in the total slurry application. Add last the remaining balance of water. The total amount of volume is determined by the seed size and how much is necessary to ensure complete and uniform coverage and distribution on the seed, as well as the type of commercial seed treating application equipment that will be used.

DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GEL. USE TANK MIXTURES IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

## SECTION 11: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **VERCORAS XC Seed Treatment** contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to **VERCORAS XC Seed Treatment** and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same field. 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 **VERCORAS XC Seed Treatment** or other Group 7 fungicides with different groups that control the same pathogens in a field.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen 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.
- Monitor treated fungal populations for resistance development. Notify BASF if reduced sensitivity of the pathogen to **VERCORAS XC Seed Treatment** is suspected.

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- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and disease problems in your area.
- For further information and to report suspected resistance, contact BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca)