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| GROUP | <b>7</b> | FUNGICIDE |
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## VIBRANCE® POTATO

FUNGICIDE SEED PIECE TREATMENT

AGRICULTURAL

SUSPENSION

Broad-spectrum seed treatment fungicide for control of seed-borne diseases in potatoes

**GUARANTEE:**

Sedaxane..... 500 g/L

Contains 1,2-benzisothiazolin-3-one at 0.006% as a preservative.

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

REGISTRATION NO: **31041**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1050 L**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario  
N1G 4Z3  
Telephone: 1-877-964-3682

## 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.

## FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 in eyes**, hold eyes 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.

## TOXICOLOGICAL INFORMATION

Treat symptomatically. Product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.** Wash hands and face after handling and before eating, using tobacco (including smoking), applying cosmetics, or using the toilet. Avoid contamination of feed and foodstuffs.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, clean-up, and repair.

**DO NOT** use open treating equipment when treating potato seed pieces. This product must be applied using a closed treatment system.

Keep treated potato seed pieces away from animals.

When handling treated potato seed pieces or when working with or around equipment used to

transport or plant treated potato seed pieces, workers must wear a long-sleeved shirt, long pants, gloves, socks, and boots. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

Treat seed in a well-ventilated area.

**NOTE:** In case of accident, take the product label to the emergency facility or physician.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

## **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms. Do not contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

## **STORAGE**

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of VIBRANCE® POTATO will not affect the physical integrity of the product. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

## **USE RESTRICTIONS**

1. Treated seed must not be used for food, feed or oil processing.
2. Store away from food and feed.
3. Do not plant any crop other than corn, cereals, canola, soybeans, dry beans, dry peas, chickpeas, lentils and sugar beets, within 60 days to fields in which seed treated with VIBRANCE POTATO were planted.

## **DECONTAMINATION AND DISPOSAL**

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.

### **CONTAINER 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 Returnable Containers:**

Do not reuse this container for any purpose. For disposal, the 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

VIBRANCE® is a trademark of a Syngenta Group Company.

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**GENERAL INFORMATION**

VIBRANCE POTATO is preventative seed treatment fungicide with systemic properties recommended for the control of labeled disease of potatoes.

**DIRECTIONS FOR USE**

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

**USE RATES**

| <b>POTATOES</b>             |   |
|-----------------------------|---|
| <b>CROPS</b>                | Potatoes  |
| <b>DISEASES CONTROLLED</b>  | Seed-borne black scurf and stem and stolon canker ( <i>Rhizoctonia solani</i> )   |
| <b>RATE (mL/100kg seed)</b> | 3 - 5 (1.5 – 2.5 g sedaxane/100kg seed)   |
| <b>NOTES</b>                | Under high <i>Rhizoctonia solani</i> pressure or for optimal silver scurf control, use the high rate (5 mL product/100 kg seed) |
| <b>CROPS</b>                | Potatoes  |
| <b>DISEASES CONTROLLED</b>  | Seed-borne silver scurf ( <i>Helminthosporium solani</i> )  |
| <b>RATE (mL/100kg seed)</b> | 5 (2.5 g sedaxane/100kg seed)   |

For protection against soil-borne diseases, application of a registered, in-furrow fungicide, in addition to the seed-piece application of VIBRANCE POTATO is recommended.

VIBRANCE POTATO does not control bacterial pathogens that may be present in potato seed pieces.

VIBRANCE POTATO mixes easily with water. When mixing with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test; mixing all intended seed treatments with the appropriate amount of water in a clear glass container, mix well, and allow to sit for one hour. Remix and observe for incompatibility.

Apply VIBRANCE POTATO as a water-based slurry utilizing standard slurry seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of VIBRANCE POTATO into the required amount of water or tank mix partner for the slurry treater and dilution rate to be used. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Ensure product is thoroughly mixed prior to application.

Apply only in areas with adequate ventilation or in areas that are equipped to remove mist or dust.

Cut seed is particularly vulnerable to excess moisture. Too much moisture will induce seed decay. VIBRANCE POTATO has been designed to be delivered in very low volumes of liquid to ensure good coverage without increasing tuber decay. Do not add excess water to the cut seed.

DO NOT bag potato seed that is treated with any liquid seed treatments.

If soil conditions are ideal, plant the treated potatoes immediately after application; however if soil is predicted to be cold and wet, either a) wait to cut, treat, plant until conditions are favorable or b) cut, treat and store. If cutting, treating and storing, potatoes can be treated with an inert dust to improve wound healing. Store properly until conditions improve by making sure that there is adequate cool air (7-10 °C) movement through the pile of cut seed potatoes and a relative humidity of 85-90%. Cut and treated seed should not be piled above 1.8 m in height. When transporting cut and treated seed make sure the seed is covered.

**Important Note:**

Treatment of highly damaged or bruised potato seed, or seed known to be of low vigor and poor quality, or potato seed that is deemed “physiologically old” may result in reduced germination and/or reduction of seed and seedling vigor and multiple stems from germination of the seed. When in doubt, or if the status/condition of the potato seed tubers is unknown, then treat a small sample batch of the same potato seed load with VIBRANCE POTATO using recommended rates, equipment and application procedures; before treating the total seed lot. Conduct this test on a small batch of the potato seed and observe the germination, emergence, stem count from the germinating seed. Consult the data with local experts in the region or conduct the test with University or area experts. Only if the data confirms that the seed treated with VIBRANCE POTATO is acceptable then proceed treating the rest of the seed load from which the sample was taken. **Due to seed quality, seed condition and seed storage conditions beyond the control of Syngenta Canada, no claims are made to guarantee the germination and or performance the potato seed tuber from treatment with VIBRANCE POTATO.**

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

## TANK MIXES

For additional control of certain seed- and soil-borne pathogens, VIBRANCE POTATO may be combined with MAXIM<sup>®</sup> Liquid PSP or MAXIM D. For insect control, VIBRANCE POTATO can be tank mixed with ACTARA<sup>®</sup> 240SC Insecticide or CRUISER<sup>®</sup> POTATO. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

### Resistance Management Recommendations

For resistance management, VIBRANCE POTATO contains sedaxane, a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to VIBRANCE POTATO 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 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 VIBRANCE POTATO or other Group 7 fungicides with different groups that control the same pathogens.

VIBRANCE POTATO is a carboxamide fungicide; therefore, continuous or sequential use of carboxamide fungicides within or during successive growing seasons must be avoided or reduced. VIBRANCE POTATO is not cross-resistant with other classes of fungicide that have different modes of action.

Use tank mixtures with fungicides from a different group when such use is permitted.

Seed treatment use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal populations for sign of resistance development. 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 or to report suspected resistance, contact Syngenta company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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