

GROUP	3	7	40	FUNGICIDES
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VIBRANCE® ULTRA POTATO

Seed Treatment

FUNGICIDE

AGRICULTURAL

SUSPENSION

A potato seed piece fungicide for control or suppression of seed- and soil-borne diseases.

ACTIVE INGREDIENT:

Sedaxane	77.2 g/L
Difenoconazole	77.2 g/L
Mandipropamid	154.3 g/L

Contains 1,2-benzisothiazolin-3-one at 0.03%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00014%, 2-methyl-4-isothiazolin-3-one at 0.000048% and 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives.

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

REGISTRATION NO: **33171**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1L - Bulk

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

Label

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. The user assumes the risk to persons or property that arises from any such use of this product.

2. FIRST AID

IN CASE OF POISONING, contact a doctor 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. 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 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.

Never give anything by mouth to an unconscious person. Remove person to a safe and uncontaminated area. Seek medical attention **IMMEDIATELY** if irritation persists or is severe. Have the product container or label with you when calling a poison control centre or doctor, or going for treatment.

3. TOXICOLOGICAL INFORMATION

If swallowed, there is no specific antidote. Treat symptomatically.

4. 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.

Personal Protective Equipment (PPE): Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, clean-up, and repair. 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.

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.

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 other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5. ENVIRONMENTAL HAZARDS

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

Treated seed is toxic to small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

6. 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® ULTRA POTATO Seed Treatment were planted.
4. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

7. STORAGE

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of VIBRANCE ULTRA POTATO Seed Treatment 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.

Store in a cool, dry place.

8. 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.

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.

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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)***

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Pamphlet

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9. GENERAL INFORMATION

VIBRANCE ULTRA POTATO Seed Treatment is preventative seed treatment fungicide with systemic properties recommended for the control or suppression of labeled disease of potatoes.

10. DIRECTIONS FOR USE

VIBRANCE ULTRA POTATO controls or suppresses seed-borne diseases of potatoes including black scurf and stem and stolon canker (*Rhizoctonia solani*), silver scurf (*Helminthosporium solani*), pink rot (*Phytophthora erythroseptica*), preventative control of late blight (*Phytophthora infestans*) and fusarium dry rot (*Fusarium* spp., including fludioxonil-resistant strains). VIBRANCE ULTRA POTATO does not control bacterial diseases present within the seed.

VIBRANCE ULTRA POTATO is to be used as an integral part of a potato disease management strategy. This strategy includes the use of high quality seed and the incorporation of cultural techniques such as: crop rotation and optimal harvest time for tubers to minimize disease development, proper handling of tubers to avoid unnecessary bruising, management and sanitation of equipment and storage areas to reduce inoculum including avoidance of storage conditions that lead to free moisture or condensation and application of the seed piece treatment to clean seed pieces with a properly calibrated application system.

NOTE: Handling of sprouted seed known to be of low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. Due to seed quality and seed storage

conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of potato seed pieces.

11. USE RATES

POTATOES	
CROP	Potatoes
DISEASES CONTROLLED	Seed-borne silver scurf (<i>Helminthosporium solani</i>) <i>Fusarium</i> dry rot (<i>Fusarium</i> spp.) Seed-borne black scurf, stem and stolon canker (<i>Rhizoctonia solani</i>) Preventative control of seed-borne late blight (<i>Phytophthora infestans</i>)
DISEASES SUPPRESSED	Pink rot (<i>Phytophthora erythroseptica</i>)
RATE	32 mL/100 kg seed This rate will deliver 2.5 g ai/100 kg seed of difenoconazole and sedaxane, and 5.0 g ai/100 kg seed of mandipropamid
NOTES	DO NOT apply more than 600 g mandipropamid/ha/year. Refer to the chart on the REVUS® label on the maximum number of foliar applications allowed following the use of VIBRANCE ULTRA POTATO Fungicide as potato seed piece treatment. For control of Colorado potato beetle, aphids and potato leafhopper, VIBRANCE ULTRA POTATO can be tank mixed with ACTARA® 240SC Insecticide. For control of Colorado potato beetle, VIBRANCE ULTRA POTATO can be tank mixed with FORTENZA®. Protection provided during early to mid-season growth and development of potatoes only. Refer to the tank mix partner labels for specific application instructions and precautions. 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.

12. RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, VIBRANCE ULTRA POTATO Seed Treatment contains sedaxane, mandipropamid, and difenoconazole, Group 3, 7 and 40 fungicides. Any fungal population may contain individuals naturally resistant to VIBRANCE ULTRA POTATO Seed Treatment and other Group 3, 7 and 40 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 ULTRA POTATO Seed Treatment or other Group 3, 7 and 40 fungicides with different groups that control the same pathogens.

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

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 applications.

Monitor treated fungal populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to VIBRANCE ULTRA POTATO is suspected.

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 pathogens.

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.

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