

GROUP 1 4 7 11 12 FUNGICIDES

## VIBRANCE® CINCO Seed Treatment

SEED TREATMENT FUNGICIDE

COMMERCIAL - AGRICULTURAL

SUSPENSION

A seed treatment for the control of listed fungal diseases on corn.

### ACTIVE INGREDIENTS:

Fludioxonil.....	32.0 g/L
Metalaxyl-M and S-isomer .....	25.5 g/L
Azoxystrobin .....	12.8 g/L
Thiabendazole .....	256.2 g/L
Sedaxane.....	64.1 g/L

Contains 1,2-benzisothiazolin-3-one at 0.02 % AND/OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006% and 2-methyl-4-isothiazolin-3-one at 0.00019% as preservatives.

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

**CAUTION**



**POISON**

REGISTRATION NUMBER: **33349**  
PEST CONTROL PRODUCTS ACT

**ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED**

**For use with commercial seed treaters (facilities and mobile treaters) only.**

**Net contents:** 1L – bulk

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

Label

## 1.0 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.

## 2.0 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 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.

## 3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

## 4.0 PRECAUTIONS

### **KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.**

Do not contaminate food, feed, or domestic water supplies.

Apply this product to the seed only in a way that it will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area when seed is being treated or bagged.

This product is registered for use with commercial seed treaters (facilities and mobile treaters) only. Treat seed in a well ventilated area. Harmful if inhaled and avoid inhaling/breathing vapors, spray mist or treated seed dust. Treated seed must not be used for food, feed or oil processing. Do not use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications at, or immediately before, planting. Keep treated seeds out of reach of children and animals.

**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.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

When treating seed, or cleaning, maintaining or repairing seed treatment equipment, wear chemical-resistant coveralls over a long sleeved shirt, long pants, shoes, socks, and chemical resistant gloves. When bagging, sewing or stacking bags of treated seed or moving bags with a forklift, wear coveralls over a long sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves. For good hygiene practice, it is also recommended to wear a NIOSH approved N95 filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms.

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.

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

## 7.0 USE RESTRICTIONS

1. Treated seed must not be used for food, feed or oil processing.
2. Store away from food, feed, and out of the reach of children and animals.
3. Do not plant any crop other than cereals, corn, Crop Group 20A (canola/rapeseed subgroup), soybeans, Crop Group 6C (dried shelled peas and beans), or sugar beets within 60 days to fields in which seed treated with VIBRANCE® CINCO Seed Treatment were planted.
4. Do not graze or feed livestock on treated area for 60 days after planting corn.
5. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **“This seed has been treated with sedaxane, fludioxonil, metalaxyl-M and S-isomer, azoxystrobin and thiabendazole fungicide. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed. Do not graze or feed livestock on seeded area for 60 days after planting corn. Do not use for food, feed or oil processing. Store away from food and feed. Treated seed is toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface. Keep out of reach of children and animals.”**

## 8.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from other pesticides, feed, food and out of the reach of children and animals.

Ideal storage temperature is above freezing and below 30°C. Repeated freeze-thawing of VIBRANCE CINCO 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.

## 9.0 DISPOSAL

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.

### **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.
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**For Refillable Containers:**

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***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.

GROUP	1	4	7	11	12	FUNGICIDES
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Pamphlet

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CALL 1-800-327-8633 (FASTMED)**

## **10.0 PRODUCT INFORMATION**

VIBRANCE CINCO is a seed treatment product containing the fungicides sedaxane, thiabendazole, fludioxonil, metalaxyl-M and S-isomer, and azoxystrobin. This product controls listed seed and seedling diseases caused by *Pythium spp.*, *Rhizoctonia solani*, and *Fusarium spp.*, and by weakly pathogenic fungi *Aspergillus* and *Penicillium* in field corn (including seed corn), sweet corn and popcorn.

**Note:** Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination, reduced emergence 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 the seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of carry-over treated seed.

Experience has shown that strains of fungus resistant to metalaxyl-M may develop. Failure to control the disease will likely result in crop damage and/or yield losses. Since the occurrence of resistance cannot be foreseen, Syngenta Canada Inc. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of VIBRANCE CINCO to control the resistant fungus strains. If disease appears in a treated field, consult the government extension specialist immediately.

## **11.0 DIRECTIONS FOR USE**

### **11.1 General Information**

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.

VIBRANCE CINCO is a seed treatment formulation for use in commercial seed treatment (in facilities or with mobile treaters) using seed treatment equipment that accurately meters, mixes and applies a flowable seed treatment. The equipment must provide uniform coverage of

VIBRANCE CINCO on the seed. Uneven seed coverage may not give the desired level of disease/pest control.

Thoroughly mix the recommended amount of VIBRANCE CINCO with the required amount of water for the slurry treater and dilution rate to be used. Slurry volumes will vary depending on seed size. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Allow the seed to dry before bagging, storing or seeding.

Depending on planting equipment, seed treated with VIBRANCE CINCO, or a combination of VIBRANCE CINCO and other seed treatment products may not flow through planting equipment at the same rate as untreated seed. Recalibrate the equipment before planting treated seed.

**This product contains no colourant. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product.**

## 12.0 CROP USE DIRECTIONS

### 12.1 Corn

Apply 78 mL of VIBRANCE CINCO per 100 kg of seed to the crops listed below. At this rate, VIBRANCE CINCO delivers 5 g of sedaxane, 20 g of thiabendazole, 2.5 g of fludioxonil, 2 g of metalaxyl-M and S-isomer, and 1 g of azoxystrobin per 100 kg of seed.

<b>CORN</b>	
<b>CROP</b>	<b>Corn (field, sweet, pop; including seed production)</b>
<b>DISEASES CONTROLLED</b>	Seed rot/ pre-emergence damping-off, post-emergence damping-off, and seedling blight caused by <i>Pythium</i> spp., <i>Rhizoctonia solani</i> , <i>Fusarium</i> (including <i>F. graminearum</i> and <i>F. verticillioides</i> ), and weakly pathogenic fungi <i>Aspergillus</i> spp. and <i>Penicillium</i> spp.
<b>RATE</b>	78 mL/100 kg seed (0.077 mg ai/seed)  This is based on 80 000 seeds per 20.4 kg (45 lb) bag. It will deliver 0.013 mg of sedaxane, 0.05 mg of thiabendazole, 0.0064 mg of fludioxonil, 0.005 mg of metalaxyl-M and S-isomer, and 0.0025 mg of azoxystrobin per seed.
<b>RESTRICTIONS</b>	Treated sweet corn should be planted and not carried over to the following year.  This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.

### 12.2 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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

### **13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that VIBRANCE CINCO Seed Treatment contains Groups 1, 4, 7, 11 and 12 fungicides. Any fungal population may contain individuals naturally resistant to VIBRANCE CINCO and other Group 1, 4, 7, 11 or 12 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 this product or other Group 1, 4, 7, 11, and 12 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide 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.

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 CINCO 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 and to report suspected resistance, contact Syngenta representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca)

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