

100-1374

10/22/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Dr. Tammy Tyler  
Regulatory Product Manager  
Syngenta Crop Protection LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300

OCT 22 2013

Subject: Vibrance®  
EPA Reg. No. 100-1374  
EPA Decision Number: 471312  
Your master label submitted on October 19, 2012 and resubmitted on September 26, 2013 and your supplemental label submitted on September 16, 2013 and resubmitted on September 16, 2013 for use as a seed treatment for potato

Dear Dr. Tyler,

The amended labels referred above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended are acceptable under FIFRA 3(c)(5).

One copy of the labels stamped "Accepted" are enclosed for your records. These labels supersede all labels previously accepted for this product. Please submit one copy of the final printed master label before the product is released for shipment. If you have any questions, please contact Heather Garvie by phone at: 703-308-0034 or via email at: [garvie.heather@epa.gov](mailto:garvie.heather@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Shaja B. Joyner".

Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division

Enclosure: Stamped labels

[MASTER]

GROUP 7 FUNGICIDE

Vibrance®

Fungicide

A seed treatment for protection against certain diseases of barley, oat, potato, rye, soybean, triticale, wheat, dried shelled peas and beans, chickpeas, lentils and fava beans, sorghum, rapeseed subgroup (including canola) and corn.

Active Ingredient:	
Sedaxane (CAS No. 874967-67-6)	43.7%
Other Ingredients:	56.3%
Total:	100.0%

Contains 4.3 pounds sedaxane per gallon.

KEEP OUT OF REACH OF CHILDREN.

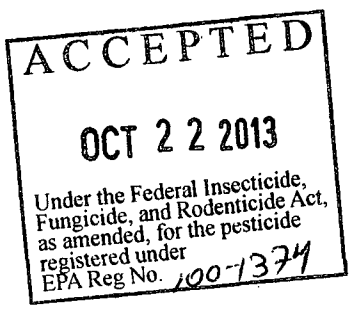
CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1374

EPA Est.

- .4 gallon
- 1 quart
- 1 gallon
- 7.5 gallons
- 15 gallons
- 30 gallons
- 110 gallons



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<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have the person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first five minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>HOT LINE NUMBER</b>            For 24 Hour Medical Emergency Assistance (Human or Animal) or            Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),            Call  <b>1-800-888-8372</b></p>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

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

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, Viton®  $\geq 14$  mils
- Shoes plus socks

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.

### Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notifications to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.** Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, Viton®  $\geq 14$  mils
- Shoes plus socks

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

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## PRODUCT INFORMATION

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Vibrance is a seed treatment fungicide which provides protection against certain soil-borne and seed-borne diseases of crop plants. Vibrance is effective against seed and seedling blight or damping off caused by, certain seed and soil borne pathogens, including *Rhizoctonia* sp. Vibrance is particularly effective against certain smut diseases in cereal crops. Where rate ranges are shown, use the higher rate when disease pressure is expected to be severe.

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## RESITANCE MANAGEMENT

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

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

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 1-800-334-9481.

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## ROTATIONAL CROP RESTRICTIONS

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Do not plant any crop other than corn, cereals, canola, soybeans, dry beans, dry peas, chickpeas and lentils, within 365 days to fields in which seed treated with Vibrance were planted.

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## MIXING INSTRUCTIONS

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Apply Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which 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 into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as stated in 40 CFR 153.155 (c). Allow seed to dry before bagging.

Vibrance does not control diseases caused by *Pythium* spp. or *Phytophthora* spp. If these diseases are expected to be a problem, apply Vibrance with Apron XL® LS or seed treatment products that contain mefenoxam as active ingredients. If Apron XL LS is not registered on that crop, apply Vibrance as a tank mix with another labeled seed treatment product that has activity against these diseases. Consult the label for appropriate use rate and follow all use instructions for the products.

Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing.

## TANK MIXES

**Small-grain cereals (Wheat, Barley, Oats, Rye, and Triticale):** Tank mix when a problem is expected with the diseases that are not controlled by Vibrance. Vibrance fungicide may be mixed with Dividend XL RTA® Fungicide or Dividend Extreme® Fungicide for broad spectrum disease control of cereals. For protection from various insects, Vibrance fungicide may be mixed with Cruiser® 5FS insecticide along with specified rates of Dividend Extreme seed treatments in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. For combined protection from labelled insect pests and soil- and seed-borne pathogens, Vibrance fungicide may be mixed with Cruiser Maxx® Cereals seed treatment or Cruiser Maxx Cereals commercial seed treatment. Follow all appropriate directions, precautions, as specified on the respective product labels.

**Potato:** For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with Maxim® 4FS or Maxim PSP. For insect control, Vibrance can be tank mixed with CruiserMaxx™ Potato or Cruiser. Consult each product label for registered use rates and follow all label use instructions. Read the label directions for each product and follow the most restrictive label precautions and limitations.



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## SEED BAG LABEL REQUIREMENTS

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The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with sedaxane fungicide.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seed treated with Vibrance fungicide:

- Store away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- Wear long-sleeved shirt, long pants, and waterproof gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of all excess treated seed. Left over treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwater.
- Dispose of seed packaging in accordance with local requirements.
- In the event of crop failure or harvest of a crop grown from Vibrance treated seed, the field may be replanted immediately to canola, soybean, cereal grains (barley, oat, rye, triticale, and wheat) corn, sorghum, crop group 6C (dried shelled pea and bean subgroup) and crop group 20A (rapeseed subgroup). All other crops may be planted no less than 30 days after planting treated seeds.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used for agronomic practice.
- The maximum number of applications per season is 2.

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**CROP USE DIRECTIONS**

**Restrictions:**

- The maximum number of applications per season is 2.

Crop	Disease Controlled	fluid ounces per 100 lbs of seed	grams ai per 100 kg of seed	Comments
Barley	True Loose Smut caused by <i>Ustilago nuda</i>	0.08 – 0.16	2.5 – 5	<ul style="list-style-type: none"> <li>• Use the low rate (0.08 fluid ounces per 100 lbs) for control of pre-emergent damping-off, seed decay, or seedling blight.</li> <li>• For extended control of post-emergent damping-off and seedling blight or high disease pressure due to short cropping rotations, or high levels of seed borne infections like smuts, use the high rate (0.16 fluid ounces per 100 lbs).</li> </ul>
Barley, Wheat, Oats, Rye, Triticale	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.08 – 0.16	2.5 – 5	
Wheat	Loose smut caused by <i>Ustilago tritici</i>	0.08 – 0.16	2.5 – 5	

Crop	Disease Controlled	Use Rate	
		fluid ounce formulated product/100 pounds of seed	mg active ingredient per seed (using an average seed count of 3000 seeds per pound)
Soybeans	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.075-0.16	0.0038 – 0.0076

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Crop	Disease Controlled	Use Rate	
		fluid ounce formulated product/100 pounds of seed	grams active ingredient/100 kg of seed
<b>Rapeseed Subgroup (Canola)</b> Includes borage, canola, crambe, cuphea, echium, flax seed, gold of pleasure, hare's ear mustard, lequerella, lunaria, meadowfoam, milkweed, mustard seed, oil radish, poppy seed, rapeseed, sesame, rapeseed and cultivars and hybrids of the above crops.	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.08-0.16	2.5 – 5

Crop	Disease Controlled	Use Rate	
		fluid ounce formulated product/100 pounds of seed	grams active ingredient/100 kg of seed
<b>Dried Shelled Peas and Beans, Chickpeas, Lentils and Fava Beans</b>	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.08-0.16	2.5 – 5

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Crop	Disease Controlled	Use Rate	
		Mg ai/seed based on 14500 seeds/lbs	grams active ingredient/100 kg of seed
Sorghum	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.0008-0.0016	2.5 – 5

Crop	Disease Controlled	Use Rate	
		Mg ai/seed based on 1800 seeds/lbs	grams active ingredient/100 kg of seed
Corn, includes field corn, sweet corn, popcorn and seed production.	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.0063-0.0125	2.5 – 5
	Head smut ( <i>Sphacelotheca reiliana</i> )	0.05-0.1	20-40

Crop	Disease Controlled	Use Rate	
		fluid ounce formulated product/100 pounds of seed	grams active ingredient/100 kg of seed
Potato	Seed-borne black scurf and stem and stolon canker ( <i>Rhizoctonia solani</i> )	0.05-0.08	1.5-2.5
	Seed-borne silver scurf ( <i>Helminthosporium solani</i> )	0.08	2.5

**Notes:** Under high *Rhizoctonia solani* pressure or for optimal silver scurf control, use the high rate (0.08 fluid ounce product/100 pounds of seed).

**Restriction:** For potatoes the application of Vibrance is limited to 0.1 lb ai /Acre for 24 months. Therefore, Vibrance treated seed potatoes cannot be planted into the same field in successive years. This restriction applies to potatoes only. A Vibrance application rate of 0.1 lb ai/A is equal to 4000 lbs of potato planted per acre and treated with .08 fl oz of Vibrance product per 100 lbs of potato seed.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

### **Pesticide Storage**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

### **Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **Container Handling [less than 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

### **Container Handling [greater than 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

### **Container Handling [Bulk/Mini-bulk]**

Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent

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full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

Vibrance®, Apron XL®, Dividend Extreme®, Dividend XL RTA®, Cruiser® 5FS, Cruiser Maxx®, and the Syngenta Logo are Trademarks of a Syngenta Group Company

Viton® is a trademark of E. I. duPont de Nemours and Company, Inc.

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Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

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**SUPPLEMENTAL LABELING**

**Syngenta Crop Protection, LLC**  
P. O. Box 18300  
Greensboro, North Carolina 27419-8300  
**SCP 1374A-S2 0913**

**GROUP 7 FUNGICIDE**

**Vibrance®**

**This supplemental label expires on 09/01/2016 and must not be used or distributed after this date.**

Active Ingredient:	
Sedaxane (CAS No. 874967-67-6).....	43.7%
Other Ingredients: .....	56.3%
Total: .....	100.0%

Contains 4.3 pounds sedaxane per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

**EPA Reg. No. 100-1374**

All applicable directions, restrictions and precautions on the EPA-registered label are to be followed. Before using Vibrance as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**ACCEPTED**  
**OCT 22 2013**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg No. **100-1374**

**syngenta**

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## DIRECTIONS FOR USE

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### RESISTANCE MANAGEMENT

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

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

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 1-800-334-9481.



**ROTATIONAL CROP RESTRICTIONS**

Do not plant any crop other than corn, cereals, canola, soybeans, dry beans, dry peas, chickpeas and lentils, within 365 days to fields in which seed treated with Vibrance were planted.

**TANK MIXES**

**Potato:** For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with Maxim® 4FS or Maxim PSP. For insect control, Vibrance can be tank mixed with CruiserMaxx™ Potato or Cruiser. Consult each product label for registered use rates and follow all label use instructions. Read the label directions for each product and follow the most restrictive label precautions and limitations.

**SEED BAG LABEL REQUIREMENTS**

The Federal Seed Act requires the following statements on bags containing seed treated with Vibrance fungicide:

- In the event of crop failure or harvest of a crop grown from Vibrance treated seed, the field may be replanted immediately to canola, soybean, cereal grains (barley, oat, rye, triticale, and wheat) corn, sorghum, crop group 6C (dried shelled pea and bean subgroup) and crop group 20A (rapeseed subgroup). All other crops may be planted no less than 30 days after planting treated seeds.

**CROP USE DIRECTIONS**

**Restrictions:**

- The maximum number of applications per season is 2.

• Crop	Disease Controlled	Use Rate	
		Mg ai/seed based on 1800 seeds/lbs	grams active ingredient/100 kg of seed
Corn, includes field corn, sweet corn, popcorn and seed production.	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.0063-0.0125	2.5 – 5
	Head smut ( <i>Sphacelotheca reiliana</i> )	0.05-0.1	20-40

Crop	Disease Controlled	Use Rate	
		fluid ounce formulated product/100 pounds of seed	grams active ingredient/100 kg of seed

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Potato	Seed-borne black scurf and stem and stolon canker ( <i>Rhizoctonia solani</i> )	0.05-0.08	1.5-2.5
	Seed-borne silver scurf ( <i>Helminthosporium solani</i> )	0.08	2.5

**Notes:** Under high *Rhizoctonia solani* pressure or for optimal silver scurf control, use the high rate (0.08 fluid ounce product/100 pounds of seed).

**Restriction:** For potatoes the application of Vibrance is limited to 0.1 lb ai /Acre for 24 months. Therefore, Vibrance treated seed potatoes cannot be planted into the same field in successive years. This restriction applies to potatoes only. A Vibrance application rate of 0.1 lb ai/A is equal to 4000 lbs of potato planted per acre and treated with .08 fl oz of Vibrance product per 100 lbs of potato seed.

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000100-01374.20120916B.VIBRANCE-SUPP-POTATO-OCT2012.pdf