Fungicide

A seed treatment for protection against certain diseases of barley, oat, 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.

KEEPS OUT OF REACH OF CHILDREN.

See additional precautionary statements and directions for use on label.

EPA Reg. No. 100-1374    EPA Est. 100-NE-001
SCP 1374A-L3D 0414    4038839

PRODUCT ID.    46672    15 gallons

Net Contents

PRECAUTIONARY STATEMENTS

Hazard 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.

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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:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves such as barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, polyvinyl chloride (PVC) >14 mils, Viton® >14 mils
3. 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.

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 wastewater or rinsate.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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 resulting from 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, TRESPASS, 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.

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 195. This standard contains requirements for the protection of agricultural workers on farms, for research plots, for 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 >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, polyvinyl chloride (PVC) >14 mils, Viton® >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.

PRODUCT INFORMATION

Vibrance is a seed treatment fungicide that 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 rates ranges are shown, use the higher rate when disease pressure is expected to be severe.

RESISTANCE MANAGEMENT

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 the 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.

continued on label attached to back of container...
continued from label attached to front of container...

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 advisor 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.

Fungicide

TANK MIXES

Following sedaxane treated seeds except potato seed pieces:

- All crops that have not been treated with sedaxane may be planted 30 days after planting sedaxane treated seeds.
- All crops treated with sedaxane may be replanted immediately with the exception of potato.

Following potato seed pieces treated with sedaxane:

- No sedaxane treated seeds may be planted for a 24 month period following planting of sedaxane treated potato seed pieces

MIXING INSTRUCTIONS

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® or seed treatment products that contain mefenoxam as active ingredients. If Apron XL® 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.

SEED BAG LABEL REQUIREMENTS

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 seeds 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-bagged around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of equipment washwater.

- Dispose of seed packaging in accordance with local requirements.
- Following sedaxane treated seeds except potato seed pieces:
  - All crops that have not been treated with sedaxane may be planted 30 days after planting sedaxane treated seeds.
  - All crops treated with sedaxane may be replanted immediately with the exception of potato.
  - Following potato seed pieces treated with sedaxane:
    - No sedaxane treated potato seeds may be planted for a 24 month period following planting of sedaxane treated potato seed pieces

  - 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.

CROP USE DIRECTIONS

Restrictions:
The maximum number of applications per season is 2.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease Controlled</th>
<th>fluid ounces formulated/100 pounds of seed</th>
<th>grams active ingredient/100 kg of seed</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>True Loose Smut caused by Ustilago nuda</td>
<td>0.08 – 0.16</td>
<td>2.5 – 5</td>
<td></td>
</tr>
<tr>
<td>Barley, Wheat, Rye, Triticale</td>
<td>Seed Decay, Seeding Blight and Damping-off caused by Rhizoctonia solani</td>
<td>0.08 – 0.16</td>
<td>2.5 – 5</td>
<td></td>
</tr>
<tr>
<td>Wheat</td>
<td>Loose smut caused by Ustilago tritici</td>
<td>0.08 – 0.16</td>
<td>2.5 – 5</td>
<td></td>
</tr>
</tbody>
</table>

- Use the low rate (0.08 fluid ounces per 100 lbs) for control of pre-emergent damping-off, seed decay, or seedling blight.
- For extended control of post-emergent damping-off and seedling blight in high disease pressure due to short cropping rotations, or high levels of seed borne infections, use the high rate (0.16 fluid ounces per 100 lbs).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed or 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 rinse 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: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) prior to emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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. Empty the rinse into application equipment or a mix tank or store rinse 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.

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.