



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 7, 2018

Matthew C. Flanery
Regulatory Specialist
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: Label Amendment – Changes to crop rotation restrictions section and environmental hazards
Product Name: Vibrance
EPA Registration Number: 100-1374
Application Date: 1/29/2018
Decision Number: 538059

Dear Matthew Flanery:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

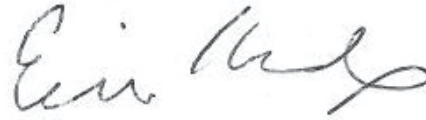
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2
EPA Reg. No. 100-1374
Decision No. 538059

with FIFRA section 6. If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at mellor.nathan@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft". The signature is written in a cursive style with a large, sweeping initial "E".

Erik Kraft, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[MASTER]

SEDAXANE GROUP 7 FUNGICIDE

Vibrance®

Fungicide

A seed treatment product for protection against listed diseases on cereal grains group 15 (including barley, buckwheat, corn [field, pop, seed, and sweet], oats, pearl millet, proso millet, rice [dry-seeded], rye, sorghum, teosinte, triticale, wheat, and wild rice), cotton, dried shelled pea and bean subgroup 6C (including chickpea, lentils and fava bean), peanut, potato, rapeseed subgroup 20A (including canola), soybean, and sugarbeet.

Active Ingredient:

| | |
|--------------------|--------|
| Sedaxane* | 43.7% |
| Other Ingredients: | 56.3% |
| Total: | 100.0% |

*CAS No. 874967-67-6

Vibrance is a flowable concentrate for seed treatment containing 4.3 lb sedaxane per gallon.

KEEP OUT OF REACH OF CHILDREN.

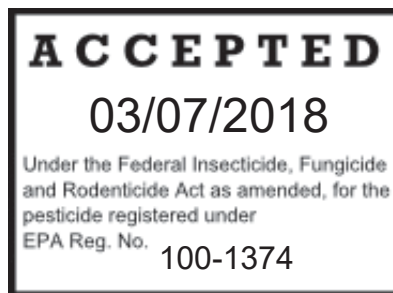
CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1374

EPA Est.

Net Contents



| FIRST AID | |
|---|--|
| If swallowed | <ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have the person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything to an unconscious person. |
| If in eyes | <ul style="list-style-type: none">• 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 continuing rinsing eye.• Call a poison control center or doctor for treatment advice. |
| If on skin or clothing | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice. |
| If inhaled | <ul style="list-style-type: none">• 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 center or doctor for treatment advice. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372 | |

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, causes moderate eye irritation, harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves including 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

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 Controls

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

This product is toxic to fish. Do not contaminate water when disposing of equipment washwater 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 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.

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 including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥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 which provides protection against listed soil-borne and seed-borne diseases of crop plants. Vibrance is effective against seed and seedling blight or damping-off caused by listed seed- and soil-borne pathogens, including *Rhizoctonia* spp. Vibrance is particularly effective against certain smut diseases in cereal grains. Where rate ranges are shown, use the higher rate when disease pressure is expected to be severe.

RESISTANCE MANAGEMENT

| | | | |
|----------|-------|---|-----------|
| SEDAXANE | GROUP | 7 | FUNGICIDE |
|----------|-------|---|-----------|

Sedaxane belongs to the carboxamide class of chemistry and is a succinate dehydrogenase inhibitor (SDHI). SDHI's inhibit fungal metabolism by binding to the succinate dehydrogenase enzyme thereby disrupting cellular respiration and energy generation.

For resistance management, Vibrance contains 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. Follow appropriate resistance-management strategies.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Vibrance or other Group 7 fungicides within a growing season sequence with different groups that control the same pathogens.
- Monitor treated fungal populations for resistance development.
- Use seed treatment based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

For additional information on fungicide resistance management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

ROTATIONAL CROP RESTRICTIONS

In the event of crop failure or harvest of a crop grown from seed treated with Vibrance, crops may be replanted according to the following schedule:

| ROTATIONAL CROP PLANT BACK INTERVALS | | | | |
|--|---|----------------------------------|----------------------------------|----------------------------|
| Crop Planted | Immediate Plant Back | Minimum 30-Day Plant Back | Minimum 60-Day Plant Back | 12-Month Plant Back |
| Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Rapeseed (Crop Subgroup 20A) Sorghum Soybean Sugar Beet | Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Potato Rapeseed (Crop Subgroup 20A including canola) Sorghum Soybean Sugar Beet | All other crops | | |
| Potato | Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Rapeseed (Crop Subgroup 20A including canola) Sorghum Soybean Sugar Beet | | All other crops except potatoes | Potato |

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's 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 other seed treatment products that contain mefenoxam as an active ingredient. If a mefenoxam-containing seed treatment product is not registered on that crop, apply Vibrance as a tank mix with another labeled seed treatment product that has activity against these diseases.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

TANK MIXES

Cereals, small-grain (Barley, Oats, Rye, Triticale, and Wheat): Tank mix when a problem is expected with the diseases that are not controlled by Vibrance. Vibrance may be mixed with seed treatment products containing difenoconazole, mefenoxam, fludioxonil, and/or thiabendazole for broad spectrum disease control of cereals. For protection from various insects, Vibrance may be mixed with seed treatment products containing thiamethoxam along with specified rates of any of the fungicides mentioned above 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 may be mixed with a premix seed treatment product containing thiamethoxam, mefenoxam, and difenoconazole. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Corn: For additional protection than Vibrance alone provides, a premix seed treatment product containing fludioxonil, mefenoxam, azoxystrobin and thiabendazole may be slurry-mixed for broad-spectrum protection of seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight including *Pythium* spp., *Fusarium* spp., *Penicillium* spp. and *Rhizoctonia* spp.

If using Vibrance in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix partner label(s). Do not exceed any label dosage and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product which prohibits such mixing.

Cotton: For additional control of certain seed- and seed-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, and/or azoxystrobin. For insect control, Vibrance may be tank mixed with a seed treatment product containing abamectin and/or thiamethoxam. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Dried shelled pea and bean (including chickpea, lentils and fava bean) Crop Subgroup 6C: Vibrance may be tank mixed with seed treatment products containing mefenoxam, fludioxonil, azoxystrobin, and/or thiabendazole for additional control of certain seed- and soil-borne pathogens. For insect control, Vibrance can be tank mixed with seed treatment products containing thiamethoxam. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Potato: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing fludioxonil. For insect control, Vibrance may be tank mixed with seed treatment products containing thiamethoxam, fludioxonil, and/or difenoconazole. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Rapeseed (including canola) Crop Subgroup 20A: For additional control of certain seed- and soil-borne pathogens as well as insect control, Vibrance may be combined with a seed treatment product containing thiamethoxam, difenoconazole, mefenoxam, and fludioxonil. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Rice: For additional control of certain seed- and seed-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, and/or azoxystrobin. For insect control, Vibrance may be tank mixed with a seed treatment product containing thiamethoxam and fludioxonil, azoxystrobin, and/or mefenoxam. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most

restrictive directions for use and precautionary statements of each product in the tank mixture.

Sorghum: For additional control of certain seed- and seed-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, and/or azoxystrobin. For suppression of downy mildew, *Peronosclerospora sorghi*, use in combination with a seed treatment product containing acibenzolar-s-methyl and azoxystrobin. For insect control, Vibrance may be tank mixed with seed treatment products containing thiamethoxam. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Soybean: Addition protection from common seed-borne and soil-borne pathogens may be achieved by adding seed treatment products containing mefenoxam, azoxystrobin, fludioxonil and/or thiabendazole. Mefenoxam provides protection against *Pythium* and early season *Phytophthora* root rot. Fludioxonil provides protection against *Fusarium* spp., *Rhizoctonia* spp., and also suppresses seed-borne *Sclerotinia* spp. and *Phomopsis* spp. Azoxystrobin adds an additional mode of action for protection against *Pythium* spp. and *Rhizoctonia* spp. Thiabendazole provides protection against Pod and stem blight (*Phomopsis* spp.) as well as another mode of action against *Fusarium* spp. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sugarbeet: Vibrance may be tank mixed with seed treatment products containing mefenoxam, fludioxonil, and/or azoxystrobin for additional control of certain seed- and soil-borne pathogens. For insect control, Vibrance may be tank mixed with a seed treatment product containing thiamethoxam. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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 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 chemical-resistant 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.
- 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 year is 2.

- In the event of crop failure or harvest of a crop grown from seed treated with Vibrance, crops may be replanted according to the following schedule:

| ROTATIONAL CROP PLANT BACK INTERVALS | | | | |
|--|---|----------------------------------|----------------------------------|----------------------------|
| Crop Planted | Immediate Plant Back | Minimum 30-Day Plant Back | Minimum 60-Day Plant Back | 12-Month Plant Back |
| Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Rapeseed (Crop Subgroup 20A) Sorghum Soybean Sugar Beet | Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Potato Rapeseed (Crop Subgroup 20A including canola) Sorghum Soybean Sugar Beet | All other crops | | |
| Potato | Canola Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Dried Shelled Pea and Bean (Crop Subgroup 6C) Peanut Rapeseed (Crop Subgroup 20A including canola) Sorghum Soybean Sugar Beet | | All other crops except potatoes | Potato |

CROP USE DIRECTIONS

Restrictions:

- The maximum number of applications per year is 2.

| Crop | Disease Controlled | fl oz/100 lb of seed | grams ai/100 kg of seed | Comments |
|---|---|----------------------|-------------------------|---|
| Cereal Grains Crop Group 15 (including Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Teosinte, Triticale, Wheat, and Wild Rice) Forage, Fodder and Straw of Cereal Grains Crop Group 16 | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> Loose Smut caused by <i>Ustilago tritici</i> True Loose Smut caused by <i>Ustilago nuda</i> | 0.08 – 0.16 | 2.5 – 5 | Use the low rate (0.08 fl oz/100 lb) for control of pre-emergent damping-off, seed decay, or seedling blight. 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 fl oz/100 lb). |

| Crop | Disease Controlled | Use Rate | |
|---|---|--|-------------------------|
| | | mg ai/seed (based on 1,800 seeds/lb of seed) | grams ai/100 kg of seed |
| Corn (field, pop, seed, and sweet) | 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>) | 0.05-0.10 | 20-40 |

| Crop | Disease Controlled | Use Rate | |
|--------------------------------------|---|--|----------------------------|
| | | mg ai/seed (based on 21,000 seeds/lb of seed) | grams ai/100 kg of seed |
| Rice, Dry-seeded only | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> | 0.0002 – 0.002 | 1 – 10 |

| Crop | Disease Controlled | Use Rate | |
|----------------|---|--|----------------------------|
| | | mg ai/seed (based on 14,500 seeds/lb of seed) | grams ai/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 | |
|---------------|---|--------------------------|--|
| | | fl oz /100 lb of seed | mg ai/seed (based on 4,500 seeds/lb of seed) |
| Cotton | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> | 0.08 – 0.60 | 0.003 – 0.020 |

| Crop | Disease Controlled | Use Rate | |
|---|---|-------------------------|----------------------------|
| | | fl oz/100 lb of seed | grams ai/100 kg of seed |
| Dried Shelled Pea and Bean Crop Subgroup 6C (including Chickpeas, Lentils and Fava Bean) | 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 | |
|---------------|---|---|----------------------------|
| | | mg ai/seed (based on 850 seeds/lb of seed) | grams ai/100 kg of seed |
| Peanut | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> | 0.013 – 0.053 | 2.5 – 10 |

| Crop | Disease Controlled | Use Rate | |
|---------------|---|-------------------------|----------------------------|
| | | fl oz/100 lb of seed | grams ai/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 lb of seed).

Restriction: For potatoes the application of Vibrance is limited to 0.1 lb ai /A for 12 months. This restriction applies to potatoes only. A Vibrance application rate of 0.1 lb ai/A is equal to 4000 lb of potato planted per acre and treated with 0.08 fl oz of Vibrance product per 100 lb of potato seed.

| Crop | Disease Controlled | Use Rate | |
|---|---|----------------------|-------------------------|
| | | fl oz/100 lb of seed | grams ai/100 kg of seed |
| Rapeseed (including Canola) Crop Subgroup 20A 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 | |
|----------------|---|----------------------|---|
| | | fl oz/100 lb of seed | mg ai/seed (based on 3000 seeds/lb of seed) |
| Soybean | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> | 0.075-0.16 | 0.0038 – 0.0076 |

| Crop | Disease Controlled | Use Rate | |
|--|---|----------------------|-------------------------|
| | | fl oz/ 100,000 seeds | grams ai/ 100,000 seeds |
| Sugarbeet (Not allowed on sugarbeets grown for seed production) | Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i> | 0.03 – 0.49 | 0.50 – 7.5 |

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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 or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. 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 or 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 approved by state and local authorities.

Container Handling [greater than 5 gallons – mini-bulk]

Non-refillable container. Do not reuse or refill this container. 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 approved by state and local authorities.

Container Handling [greater than 5 gallons - Bulk]

Refillable container. Refill this container with pesticide only. Do not reuse 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 person refilling. 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 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 approved 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®, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

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

©20XX Syngenta

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

VIBRANCE 1374 MAS 0118 AMEND-B JAN2018-Clean – rk – 3/6/18
000100-01374.20180129B.VIBRANCE.AMEND.JAN2018-CL.pdf