



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

November 22, 2023

Patsy Laird
Regulatory Product Manager - Seedcare
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Subject: Label Amendment – Adding optional California use restriction
Product Name: Vibrance
EPA Registration Number: 100-1374
Application Date: July 6, 2023
Case Number: 00486662

Dear Ms. Laird:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), 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 FIFRA 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) lists 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.

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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 with FIFRA section 6.

If you have any questions, please contact Lindsay DeMers via email at demers.lindsay@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja B. Joyner". The signature is written in a cursive style with a large initial "S".

Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505T
Office of Pesticide Programs

Enclosure: stamped "accepted" label

[MASTER]

SEDAXANE **GROUP** **7** **FUNGICIDE**

Vibrance®

Fungicide

A seed treatment product for protection against listed diseases on bulb onion crop subgroup 3-07A; 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; cucurbit vegetables crop group 9; forage, fodder, and straw of cereal grains crop group 16; legume vegetables (succulent or dried) crop group 6; foliage of legume vegetables crop group 7A; 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

[Batch Code: _____] (*For nonrefillables only.*)

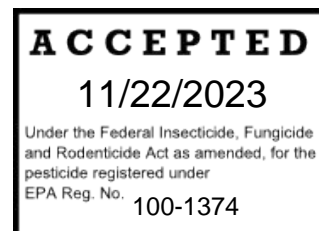


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1.0 FIRST AID

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a 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 by mouth 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 mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p>SYNGENTA HOTLINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372</p>	

2.0 PRECAUTIONARY STATEMENTS

2.1 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.

2.2 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, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton™ ≥14 mils
- Shoes plus socks

2.2.1 User Safety Requirements

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.

2.2.2 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.

2.2.3 User Safety Recommendations

Users Safety Recommendations

User should:

- 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.

2.3 Environmental Hazards

This product is toxic to fish. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

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, neoprene rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or 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.

3.0 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.

3.1 Resistance Management

For resistance management, please note that Vibrance contains a Group 7 fungicide, sedaxane. 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.

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.

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

- Rotate the use of Group 7 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled.
- Adopt an integrated disease management program for fungicide use that includes scouting; uses 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. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance, contact Syngenta Crop Protection at 1-866-796-4368. You can also contact your university extension specialist to report resistance.

4.0 APPLICATION DIRECTIONS

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.

4.1 Tank Mixtures

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. This product must not be mixed with any product which prohibits such mixing.

Bulb Onion Crop Subgroup 3-07A: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, picarbutrazox, and/or azoxystrobin. For insect control, Vibrance may be tank mixed with a seed treatment product containing thiamethoxam, spinosad, or cyromazine.

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.

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.

Cotton: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, picarbutrazox, and/or azoxystrobin. For insect control, Vibrance may be tank mixed with a seed treatment product containing abamectin and/or thiamethoxam.

Cucurbit Vegetables Crop Group 9: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, picarbutrazox, and/or azoxystrobin. For insect control, Vibrance may be tank mixed with a seed treatment product containing thiamethoxam.

Legume Vegetables (Succulent or Dried) Crop Group 6: 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.

Potato: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing fludioxonil and/or difenoconazole. For insect control, Vibrance may be tank mixed with seed treatment products containing thiamethoxam.

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.

Rice: For additional control of certain seed- and soil-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.

Sorghum: For additional control of certain seed- and soil-borne pathogens, Vibrance may be combined with seed treatment products containing mefenoxam, fludioxonil, picarbutrazox, and/or azoxystrobin. For suppression of downy mildew caused by *Peronosclerospora sorghi*, use Vibrance 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.

Soybean: Additional 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. and *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.

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.

5.0 ROTATIONAL CROPS RESTRICTIONS

In the event of a 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	Minimum 12-Month Plant Back
Bulb Onion Crop Subgroup 3-07A Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Cucurbit Vegetables Crop Group 9 Legume Vegetables (Succulent or Dried) Crop Group 6 Peanut Rapeseed (including canola) Crop Subgroup 20A Sorghum Soybean Sugar Beet	Bulb Onion Crop Subgroup 3-07A Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Cucurbit Vegetables Crop Group 9 Legume Vegetables (Succulent or Dried) Crop Group 6 Peanut Potato Rapeseed (including canola) Crop Subgroup 20A Sorghum Soybean Sugar Beet	All other crops		
Potato	Bulb Onion Crop Subgroup 3-07A Cereal Grains Crop Group 15 Corn (field, pop, sweet) Cotton Cucurbit Vegetables Crop Group 9 Legume Vegetables (Succulent or Dried) Crop Group 6 Peanut Rapeseed (including canola) Crop Subgroup 20A Sorghum Soybean Sugar Beet		All other crops except potato	Potato

6.0 USE RESTRICTIONS AND PRECAUTIONS

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift.

6.1 Use Restrictions

- **DO NOT** use treated seed for feed, food, or oil purposes.
- Store away from feed and foodstuffs.
- **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. Leftover 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.
- For potatoes, this treated seed may be planted on the same acres 1 time per year
- For all crops except potatoes, this treated seed may be planted on the same acres up to 2 times per year
- **DO NOT** apply more than 0.016 lb ai/A (7.1 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cereal Grains (except corn, rice and sorghum) Crop Group 15 and Forage, Fodder and Straw of Cereal Grains (except corn, rice and sorghum) Crop Group 16.
- **DO NOT** apply more than 0.027 lb ai/A (12 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Corn (field, pop, seed, and sweet).
- **DO NOT** apply more than 0.031 lb ai/A (14 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rice, Dry-seeded only.
- **DO NOT** apply more than 0.0012 lb ai/A (0.54 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sorghum.
- **DO NOT** apply more than 0.0076 lb ai/A (3.4 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cotton.
- **DO NOT** apply more than 0.023 lb ai/A (10.4 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Bulb Onion Crop Subgroup 3-07A.
- **DO NOT** apply more than 0.0024 lb ai/A (1.1 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cucurbit Vegetables Crop Group 9.
- **DO NOT** apply more than 0.041 lb ai/A (19 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 and Foliage of Legume Vegetables Crop Group 7A and soybeans.
- **DO NOT** apply more than 0.046 lb ai/A (21g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Peanut.
- 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.

- **DO NOT** apply more than 0.0050 lb ai/A (2.3 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rapeseed (including Canola) Crop Subgroup 20A.
- **DO NOT** apply more than 0.0167 lb ai/A (7.6 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Soybean and Soybean (immature seed).
- **DO NOT** apply more than 0.034 lb ai/A (15.7 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sugarbeet (Not allowed on sugarbeets grown for seed production).

7.0 SEED CONTAINER 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 feed and foodstuffs.
- **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. Leftover 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.
- For potatoes, this treated seed may be planted on the same acres 1 time per year
- For all crops except potatoes, this treated seed may be planted on the same acres up to 2 times per year
- **DO NOT** apply more than 0.016 lb ai/A (7.1 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cereal Grains (except corn, rice and sorghum) Crop Group 15 and Forage, Fodder and Straw of Cereal Grains (except corn, rice and sorghum) Crop Group 16.
- **DO NOT** apply more than 0.027 lb ai/A (12 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Corn (field, pop, seed, and sweet).
- **DO NOT** apply more than 0.031 lb ai/A (14 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rice, Dry-seeded only.
- **DO NOT** apply more than 0.0012 lb ai/A (0.54 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sorghum.
- **DO NOT** apply more than 0.0076 lb ai/A (3.4 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cotton.
- **DO NOT** apply more than 0.023 lb ai/A (10.4g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Bulb Onion Crop Subgroup 3-07A.
- **DO NOT** apply more than 0.0024 lb ai/A (1.1g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cucurbit Vegetables Crop Group 9.
- **DO NOT** apply more than 0.041 lb ai/A (19 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 and Foliage of Legume Vegetables Crop Group 7A and soybeans.

- **DO NOT** apply more than 0.046 lb ai/A (21g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Peanut.
- 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.
- **DO NOT** apply more than 0.0050 lb ai/A (2.3 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rapeseed (including Canola) Crop Subgroup 20A.
- **DO NOT** apply more than 0.0167 lb ai/A (7.6 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Soybean and Soybean (immature seed).
- **DO NOT** apply more than 0.034 lb ai/A (15.7 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sugarbeet (Not allowed on sugarbeets grown for seed production).
- 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	Minimum 12-Month Plant Back
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8.0 SEED TREATMENT DIRECTIONS

8.1 Bulb Onion Crop Subgroup 3-07A [– Not for Use in California]

Crop	Disease Controlled	Use Rate	
		fl oz/100 lb of seed	grams ai/100 kg of seed
Bulb Onion Crop Subgroup 3-07A Daylily, bulb Fritillaria, bulb Garlic, bulb Garlic, great-headed, bulb Garlic, serpent, bulb Lily, bulb Onion, bulb Onion, Chinese, bulb Onion, pearl Onion, potato, bulb Shallot, bulb Cultivars, varieties, and/or hybrids of these	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.15 – 0.30	5 – 10
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.011 lb ai/A (5 g ai/A) per application of sedaxane-containing products as a seed treatment on Bulb Onion Crop Subgroup 3-07A. DO NOT apply more than 0.023 lb ai/A (10.4 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Bulb Onion Crop Subgroup 3-07A. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.2 Cereal Grains Crop Group 15 and Forage, Fodder, and Straw of Cereal Grains Crop Group 16

8.2.1 Barley, Buckwheat, Oats, Pearl Millet, Proso Millet, Rye, Teosinte, Triticale, Wheat, and Wild Rice and Forage, Fodder, and Straw of Cereal Grains Crop Group 16

Crop	Disease Controlled	Use Rate	
		fl oz/100 lb of seed	grams ai/ 100 kg of seed
Barley Buckwheat Oats Pearl Millet Proso Millet Rye Teosinte Triticale Wheat 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
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
Application Instructions:			
<ul style="list-style-type: none"> 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, 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). 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.016 lb ai/A (7.1 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cereal Grains (except corn, rice and sorghum) Crop Group 15 and Forage, Fodder and Straw of Cereal Grains (except corn, rice and sorghum) Crop Group 16. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.2.2 Corn (field, pop, seed, and sweet)

Crop	Disease Controlled	Use Rate	
		grams ai/100 kg of seed	mg ai/seed (based on 1,800 seeds/lb of seed)
Corn (field, pop, seed, and sweet)	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	2.5 – 5	0.0063 – 0.0125
	Head smut (<i>Sphacelotheca reiliana</i>)	20 – 40	0.05 – 0.10
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.027 lb ai/A (12 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Corn (field, pop, seed, and sweet). Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.2.3 Rice, Dry-seeded only – Not for Use in California

Crop	Disease Controlled	Use Rate	
		grams ai/100 kg of seed	mg ai/seed (based on 21,000 seeds/lb of seed)
Rice, Dry-seeded only – Not for Use in California	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	1 – 10	0.0002 – 0.002
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.031 lb ai/A (14 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rice, Dry-seeded only. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.2.4 Sorghum

Crop	Disease Controlled	Use Rate	
		grams ai/100 kg of seed	mg ai/seed (based on 14,500 seeds/lb of seed)
Sorghum	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	2.5 – 5	0.0008 – 0.0016
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.0012 lb ai/A (0.54 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sorghum. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.3 Cotton

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
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.0076 lb ai/Ac(3.4 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cotton. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.4 Cucurbit Vegetables Crop Group 9 [– Not for Use in California]

Crop	Disease Controlled	Use Rate	
		fl oz/100 lb of seed	grams ai/100 kg of seed
Cucurbit Vegetables Crop Group 9 Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza, hechia, and Chinese okra) <i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, and Chinese cucumber) Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Clause melon, and snake melon) Pumpkin Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini) Squash, winter (includes butternut squash, calabaza, Hubbard squash, acorn squash, and spaghetti squash) Watermelon	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.15 – 0.30	5 – 10
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.0012 lb ai/A (0.5 g ai/A) per application of sedaxane-containing products as a seed treatment on Cucurbit Vegetables Crop Group 9. DO NOT apply more than 0.0024 lb ai/A (1.1 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Cucurbit Vegetables Crop Group 9. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.5 Legume Vegetables (Succulent or Dried) Crop Group 6, except soybean and Foliage of Legume Vegetables Crop Group 7A and soybeans

Crop	Disease Controlled	Use Rate	
		fl oz/100 lb of seed	grams ai/100 kg of seed
<p>Legume Vegetables (Succulent or Dried) Crop Group 6, except soybean</p> <p>Bean (<i>Lupinus</i> spp.) (grain lupin, sweet lupin, white lupin, white sweet lupin)</p> <p>Bean (<i>Phaseolus</i> spp.) (field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)</p> <p>Bean (<i>Vigna</i> spp.) (adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean)</p> <p>Broad bean (fava bean)</p> <p>Chickpea (garbanzo bean)</p> <p>Guar</p> <p>Jackbean</p> <p>Lablab bean (hyacinth bean)</p> <p>Lentil</p> <p>Pea (<i>Pisum</i> spp.) (dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)</p> <p>Pigeon pea</p> <p>Sword bean</p> <p>Foliage of Legume Vegetables Crop Group 7A and soybeans</p>	<p>Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i></p>	<p>0.08 – 0.16</p>	<p>2.5 – 5</p>
<p>Resistance Management:</p> <ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.041 lb ai/A (19 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 and Foliage of Legume Vegetables Crop Group 7A and soybeans. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.6 Peanut

Crop	Disease Controlled	Use Rate	
		grams ai/100 kg of seed	mg ai/seed (based on 850 seeds/lb of seed)
Peanut	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	2.5 – 10	0.013 – 0.053
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.046 lb ai/A (21g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Peanut. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.7 Potato

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 <i>Rhizoctonia solani</i> pressure or for optimal silver scurf control, use the high rate (0.08 fl oz product/100 lb of seed).			
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> Vibrance-treated seed may be planted on the same acres 1 time per year. 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. 			

8.8 Rapeseed (including Canola) Crop Subgroup 20A

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, lesquerella, 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
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.0050 lb ai/A (2.3 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Rapeseed (including Canola) Crop Subgroup 20A. Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.9 Soybean and Soybean (immature seed)

Crop	Disease Controlled	Use Rate	
		fl oz/100 lb of seed	mg ai/seed (based on 3000 seeds/lb of seed)
Soybean Soybean (immature seed)	Seed Decay, Seedling Blight and Damping-off caused by <i>Rhizoctonia solani</i>	0.075 – 0.16	0.0038 – 0.0076
Resistance Management: <ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.0167 lb ai/A (7.6 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Soybean and Soybean (immature seed). Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

8.10 Sugarbeet (Not allowed on sugarbeets grown for seed production)

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
Resistance Management:			
<ul style="list-style-type: none"> Refer to Section 3.1. 			
USE RESTRICTIONS			
<ul style="list-style-type: none"> DO NOT apply more than 0.034 lb ai/A (15.7 g ai/A) per calendar year of sedaxane-containing products as a seed treatment on Sugarbeet (Not allowed on sugarbeets grown for seed production). Vibrance-treated seed may be planted on the same acres up to 2 times per year. 			

9.0 STORAGE AND DISPOSAL

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 acutely hazardous. 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 at 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 other procedures approved by state and local authorities.

Container Handling (greater than 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. 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 other procedures approved by state and local authorities.

Container Handling (greater than 5 gallons)

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 other procedures approved by state and local authorities.

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

10.0 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.**

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

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