

LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP 6, EXCEPT SOYBEAN

General Information

PRODUCT INFORMATION

Vibrance Maxx Pulses RTA is a seed treatment product containing the active ingredients thiabendazole, sedaxane, mefenoxam and fludioxonil (fungicides). Vibrance Maxx Pulses RTA protects against damage from listed soil- and seedborne diseases of peas and beans (except soybeans).

Refer to the Directions for Use section for approved crops and diseases controlled by Vibrance Maxx Pulses RTA.

Resistance Management

For resistance management, please note that Vibrance Maxx Pulses RTA contains Group 1/thiabendazole, Group 4/ mefenoxam, Group 7/sedaxane and Group 12/fludioxonil fungicides. Any fungal population may contain individuals naturally resistant to Vibrance Maxx Pulses RTA and other Group 1, Group 4, Group 7 or Group 12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Thiabendazole belongs to the methyl-benzimidazole carbamate class of chemistry which disrupts α -tubulin assembly in mitosis. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Sedaxane is a succinate dehydrogenase inhibitor (SDHI) and belongs to the carboxamide class of chemistry which disrupts cellular respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

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

- Rotate the use of Vibrance Maxx Pulses RTA or other Group 1, Group 4, Group 7 or Group 12 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 by the manufacturer.

- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which 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 crop and pathogens.
 - For further information or to report suspected resistance contact Syngenta at 1-866-Syngent(a) (866-796-4368). You can also contact your pesticide distributor or university extension specialist to report resistance.
- Syngenta encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label.

APPLICATION DIRECTIONS

Important: Re-circulate Vibrance Maxx Pulses RTA thoroughly before using.

Follow the manufacturer's application instructions for the seed treatment equipment being used.

Apply Vibrance Maxx Pulses RTA as a water-based slurry through standard liquid-type seed treatment equipment that provides uniform seed coverage. Seed treaters with atomizers or spinning discs are highly recommended for better product coverage on the seed. Uneven or incomplete seed coverage may not give the desired level of disease control.

Thoroughly mix the specified amount of Vibrance Maxx Pulses RTA into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. Vibrance Maxx Pulses RTA is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for

directions before applying Vibrance Maxx Pulses RTA with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 5.0 fl oz/100 lb of seed for all crops except chickpea. For chickpea, a total slurry volume of 8 fl oz/100 lb of seed is recommended. More diluent may be required to obtain optimal coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the leftover slurry will be maintained overnight.

Vibrance Maxx Pulses RTA contains an EPA-approved colorant that imparts an unnatural color to the seed as required by the Federal Seed Act.

Allow seed to dry before bagging.

Follow planter manufacturer's specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

USE RESTRICTIONS

- Do not allow children, pets, or livestock to have access to treated seed.
- Store treated seed away from feeds and foodstuffs.
- 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 and planting (such as row ends).
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- 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 the ethanol by-products that are used in agronomic practice.
- Do not apply more than 0.041 lb ai/Acre (19 g ai/Acre) per calendar year of sedaxane-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 (except soybeans).
- Do not apply more than 0.25 lb ai/A (115 g/A) per calendar year of mefenoxam- or

metalaxyl-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 (except soybeans).

- Do not apply more than 0.15 lb ai/Acre (68 g ai/A) per calendar year of thiabendazole-containing products regardless of the type of application.
- This seed has been treated with 2.5 g fludioxonil/100 kg seed, 3.75 g mefenoxam/100 kg seed, 5.0 g sedaxane/100 kg seed, and 15 g thiabendazole/100 kg seed.
- Make no more than 2 plantings of seed treated with Vibrance Maxx Pulses RTA per year.

ROTATIONAL CROP RESTRICTIONS

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

Immediate Plantback Minimum 30-Day

Plantback Interval

Cereals, Small Grain:

Barley, Oat, Rye, Triticale, and Wheat

Corn (Field, Pop, Seed, Sweet)

Legume Vegetables (Succulent or Dried)

Crop Group 6

Soybean

All Other Crops

Untreated foliage of legume vegetables from seeds treated with Vibrance Maxx Pulses RTA are covered by an EPA tolerance.

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 thiabendazole, sedaxane, mefenoxam and fludioxonil fungicides.
- Do not use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with Vibrance Maxx Pulses RTA:

- Ground Water Advisory: Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has

properties and characteristics associated with chemicals detected in groundwater.

These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

- Surface Water Advisory: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of mefenoxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store treated seed away from feeds and foodstuffs.
- 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 and planting (such as row ends).
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- 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 the ethanol by-products that are used in agronomic practice.
- Do not apply more than 0.041 lb ai/Acre (19 g ai/Acre) per calendar year of sedaxane-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 (except soybeans).
- Do not apply more than 0.25 lb ai/A (115 g/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6 (except soybeans).
- Do not apply more than 0.15 lb ai/Acre (68 g ai/A) per calendar year of thiabendazole-containing products regardless of the type of application.
- This seed has been treated with 2.5 g fludioxonil/100 kg seed, 3.75 g

mefenoxam/100 kg seed, 5.0 g sedaxane/100 kg seed, and 15 g thiabendazole/100 kg seed.

- Make no more than 2 plantings of seed treated with Vibrance Maxx Pulses RTA per year.

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

Immediate Plantback Minimum 30-Day

Plantback Interval

Cereals, Small Grain:

Barley, Oat, Rye, Triticale, and Wheat

Corn (Field, Pop, Seed, Sweet)

Legume Vegetables (Succulent or Dried)

Crop Group 6

Soybean

All Other Crops

Untreated foliage of legume vegetables from seeds treated with Vibrance Maxx Pulses RTA are covered by an EPA tolerance.

Limitations, Restrictions, and Exceptions

USE RESTRICTIONS

- 0.041 lb ai/Acre of sedaxane per calendar year

- 0.25 lb ai/A of mefenoxam per calendar year

- 0.15 lb ai/Acre of thiabendazole per calendar year

Method

[Seed Treatment](#)

Restricted Entry Interval

48 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.

Timings

[N.A.](#)