

MEFENOXAM GROUP 4 FUNGICIDE SEDAXANE GROUP 7 FUNGICIDE

FLUDIOXONIL GROUP 12 FUNGICIDE



syngenta®

Fungicide

A seed treatment product for protection against damage from listed soil-borne, seed-borne and seedling diseases of legumes.

Active Ingredients:

Sedaxane ¹	4.69%
Mefenoxam ²	3.52%
Fludioxonil ³	2.35%

<i>Other Ingredients:</i>	89.44%
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<i>Total:</i>	100.00%
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¹CAS No. 874967-67-6

²CAS No. 70630-17-0 and CAS No. 69516-34-3

³CAS No. 131341-86-1

Vibrance Maxx is a flowable concentrate for seed treatment containing 0.42 lb sedaxane, 0.31 lb mefenoxam, and 0.21 lb fludioxonil per gallon.

**KEEP OUT OF REACH OF
CHILDREN.
CAUTION**

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1561

SCP 1561A-L2C 1021
4149563



FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
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	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

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

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: 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 Control Statements

When handlers use closed systems 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.

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PRECAUTIONARY STATEMENTS (*continued*)

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 pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural 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.

Physical and Chemical Hazards

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

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 this 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.

Use is permitted on-farm and in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the **Crop Use Directions**. This product is to be used in liquid or slurry treaters only.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with Vibrance Maxx.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

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

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) 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 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.

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

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

PRODUCT INFORMATION

Vibrance Maxx is a seed treatment product containing the active ingredients sedaxane, mefenoxam, and fludioxonil. Vibrance Maxx protects against damage from listed seed and soil-borne diseases of legumes.

RESISTANCE MANAGEMENT

MEFENOXAM	GROUP	4	FUNGICIDE
SEDAXANE	GROUP	7	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE

For resistance management, please note that Vibrance Maxx contains Group 4/ mefenoxam, Group 7/sedaxane and Group 12/fludioxonil fungicides. Any fungal population may contain individuals naturally resistant to Vibrance Maxx and other 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.

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 or other 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 fungicide 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.

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>

MIXING PROCEDURES

Important: Always re-circulate Vibrance Maxx thoroughly before using.

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

Apply Vibrance Maxx 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 Maxx 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 is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying Vibrance Maxx 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 4 fluid ounces per 100 pounds of seed for all legumes except chickpea. For chickpea, a total minimum slurry volume of 8 fluid ounces per 100 pounds of seed is recommended for optimal coverage. More diluent may be required to obtain complete coverage depending on seed surface or shape.

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

Tank Mixtures

Vibrance Maxx mixes easily with water and other water-based seed treatments manufactured by Syngenta and many other companies. When mixing with products from other manufacturers, test the compatibility prior to use by conducting a jar test: Mix all intended seed treatments with a proportional amount of water to achieve the desired slurry mixture in a clear glass container. Mix well and allow mixture to sit for one hour. Remix and observe for incompatibility.

Mixing Vibrance Maxx with tank-mix partners: Add ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. If using wettable powders, add them first to clean water allowing them to completely disperse prior to adding Vibrance Maxx or other products. Allow each tank-mix partner to completely disperse before adding the next product. Add the remaining amount of water and agitate. Maintain agitation until the entire slurry mixture has been used.

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 fludioxonil, mefenoxam, and sedaxane 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:

- **Groundwater Advisory:**

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

- 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 allow children, pets, or livestock to have access to treated seed.
- Store away from feed 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.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- 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 wash waters.
- Dispose of seed packaging in accordance with local requirements.
- In the event of crop failure or harvest of a crop grown from this treated seed, the field may be replanted as follows:
 - Immediately to Cereal Grains Crop Group 15, Corn (field, pop, sweet), Cotton, Legume Vegetables (Succulent or Dried) Crop Group 6, Peanut, Potato, Rapeseed (including canola) Crop Subgroup 20A, Soybean, and Sugarbeet.
 - All other crops may be replanted a minimum of 30 days after planting seed treated with Vibrance Maxx.
- **DO NOT** apply more than 0.25 lb ai/Acre (115 g ai/Acre) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6, Except Soybean, and Foliage of Legume Vegetables (Except Soybeans) Crop Subgroup 7A.

CROP USE DIRECTIONS

When applied according to the **Rate Table**, Vibrance Maxx provides early-season protection against the diseases listed in the tables below.

Rate Table

Crop	Diseases	Use Rate (fl oz/100 lb seed)	Active Ingredient (grams/100 kg seed)
Legume Vegetables (Succulent or Dried) Crop Group 6, Except Soybean; Foliage of Legume Vegetables Crop Subgroup 7A			
Pea, <i>Pisum</i> species: Dwarf pea Edible-pod pea English pea Field pea Garden pea Green pea Snow pea Sugar snap pea	Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.		
Pigeon Pea (<i>Cajanus cajan</i>)	Seed-borne Ascochyta blight and foot rot caused by <i>Ascochyta/Phoma</i> spp.		Mefenoxam: 3.75
Chickpea (garbanzo bean) (<i>Cicer arietinum</i>)			
Lentil (<i>Lens esculenta</i>)	Seed and soil-borne diseases caused by <i>Botrytis</i> , <i>Diaporthe/Phomopsis</i> , <i>Fusarium</i> , <i>Pythium</i> and <i>Rhizoctonia</i> spp.	1.54	Fludioxonil: 2.5
Bean, <i>Lupinus</i> species: Grain lupin Sweet lupin White lupin White sweet lupin	Seed-borne <i>Sclerotinia sclerotiorum</i>		Sedaxane: 5.0
Broad bean (fava bean) (<i>Vicia faba</i>)			
Edamame (<i>Glycine max</i>)			
Guar (<i>Cyamopsis tetragonoloba</i>)			
Jackbean (<i>Canavalia ensiformis</i>)			
Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>)			
Sword bean (<i>Canavalia gladiata</i>)			

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Crop	Diseases	Use Rate (fl oz/100 lb seed)	Active Ingredient (grams/100 kg seed)
Bean, <i>Phaseolus</i> species: Field bean Kidney bean Lima bean (dry) Navy bean Pinto bean Runner bean Snap bean Tepary bean Wax bean	Anthrachnose caused by seed-borne <i>Colletotrichum</i> spp. Seed-borne Ascochyta blight and foot rot caused by <i>Ascochyta/Phoma</i> spp.		Mefenoxam: 3.75
Bean, <i>Vigna</i> species: Adzuki bean Asparagus bean Blackeyed pea Catjang Chinese longbean Cowpea Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Yardlong bean	Seed and soil-borne diseases caused by <i>Botrytis</i> , <i>Diaporthe/Phomopsis</i> , <i>Fusarium</i> , <i>Pythium</i> and <i>Rhizoctonia</i> spp. Seed-borne <i>Sclerotinia sclerotiorum</i>	1.54	Fludioxonil: 2.5 Sedaxane: 5.0

When to add Apron XL®:

For control of early-season *Phytophthora* root rot in legume vegetables and systemic downy mildew in peas, refer to the Apron XL label for the rate needed for control. Add the required amount of Apron XL to the treatment slurry minus the equivalent amount of Apron XL in Vibrance Maxx. Vibrance Maxx contains the equivalent amount of mefenoxam contained in 0.16 fl oz of Apron XL.

When to add Mertect® 340-F:

For heavy Ascochyta infections in field pea and pigeon pea, 1.02 fl oz of Mertect 340-F/100 lb of seed may be added for best protection. For heavy Ascochyta infections of lentil, add 1.05 fl oz of Mertect 340-F, and for chickpea, add 2.04 fl oz of Mertect 340-F as directed on the Mertect 340-F label. See **Mertect 340-F Tank Mix Rate Table** for clarification on tank-mixing Mertect 340-F with Vibrance Maxx.

Mertect 340-F Tank Mix Rate Table

Crop	Disease Pressure	Tank-mix Partner	Tank-mix Partner Use Rate (fl oz per 100 lb seed)
Field Pea and Pigeon Pea	Heavy infections of <i>Ascochyta</i> spp.	Mertect 340-F	1.02
Lentil	Heavy infections of <i>Ascochyta</i> spp.	Mertect 340-F	1.05
Chickpea	Heavy infections of <i>Ascochyta</i> spp.	Mertect 340-F	2.04

For best results against *Ascochyta* blight, plant field pea, pigeon pea, lentil or chickpea seed treated with Vibrance Maxx or Vibrance Maxx plus Mertect 340-F fungicide as late in the spring as possible.

RESTRICTION

- **DO NOT** apply more than 0.25 lb ai/Acre (115 g ai/Acre) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment on Legume Vegetables (Succulent or Dried) Crop Group 6, Except Soybean, and Foliage of Legume Vegetables (Except Soybeans) Crop Subgroup 7A.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in the original container and only in a cool, dry, secure place.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used 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 in proper disposal methods.

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STORAGE AND DISPOSAL (*continued*)

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)

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)

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 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!

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481

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