

Flg22-Bt Peptide    Group    P 09    Fungicide



Vismax<sup>®</sup>  
Row Crop

Broad Spectrum Activator of Disease Resistance

<b>ACTIVE INGREDIENT:</b>	<b>By Weight</b>
Flg22-Bt Peptide: .....	0.002%
<b>OTHER INGREDIENTS:</b> .....	99.998%
<b>TOTAL:</b> .....	100.000%

## KEEP OUT OF REACH OF CHILDREN CAUTION

See inside label booklet for Precautionary Statements and Directions for Use.

### FIRST AID

<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
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### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.

EPA Reg. No.: 92188-4  
EPA Est. No.: 89402-OK-3

 elemental  
enzymes<sup>®</sup>

Net Contents: 2.5 gal (9.46 L)

Elemental Enzymes Ag & Turf, LLC  
1685 Galt Industrial Blvd  
St. Louis, MO 63132

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if inhaled. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air- purifying respirator with an HE filter

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.

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Remove clothing 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

For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

## DIRECTIONS FOR USE

### READ ENTIRE LABEL BEFORE USING THIS PRODUCT.

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 (WPS), 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 (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

**Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.**

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

- Coveralls;
- Waterproof gloves; and
- Shoes plus socks
- Minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air- purifying respirator with an HE filter

## PRODUCT INFORMATION

Vismax® Row Crop formulation of Flg22-Bt peptide is a broad-spectrum activator of multiple plant defense mechanisms, providing full season suppression of plant diseases caused by pathogenic bacteria and fungi. Vismax® Row Crop also improves crop yields through plant growth promotion and increased vigor, observed in both the presence or absence of disease pressure. The level of disease control is dependent on various environmental factors, host factors, disease pressure, coverage of host plants, and method of application.

### INTEGRATED PEST MANAGEMENT

Vismax® Row Crop should be integrated into an overall disease and pest management strategy whenever pesticide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for IPM strategies established in your areas.

## APPLICATION INSTRUCTIONS

Vismax Row Crop may be applied with ground or air equipment. Adjust the application rate and/or spray intervals according to the application instructions depending upon disease pressure.

### SOIL APPLICATION

#### In-Furrow, 2x2, and Banded Application

- Apply Vismax® Row Crop as direct in-furrow or banded application in 2-20 gallons of carrier volume/acre (water/fertilizer, or other standard agricultural input) at planting.
- Mount the spray nozzle so the spray is directed into or near the furrow just before the seed are covered. If used as a banded application, place near the seed bed prior at planting or before emergence.
- Rates at the high end of the recommended range should be used for banded applications.
- The following table provides common row spacings and the amount Vismax® Row Crop to apply per acre.

Use Rate fl oz/1,000 row feet	Vismax® Row Crop Soil Application fl oz/A								
	20-inch rows	22-inch rows	24-inch rows	30-inch rows	32-inch rows	34-inch rows	36-inch rows	38-inch rows	40-inch rows
0.23	6.0	5.5	5.0	4.0					
0.34			7.5	6.0	5.6	5.3	5.0	4.7	4.5
0.46				8.0	7.5	7.1	6.7	6.3	6.0

20" = 26,136 row ft/A, 22" = 23,760 row ft/A, 24" = 21,780 row ft/A, 30" = 17,424 row ft/A, 32" = 16,315 row ft/A, 34" = 15,374 row ft/A, 36" = 14,520 row ft/A, 38" = 13,754 row ft/A, 40" = 13,068 row ft/A

### FOLIAR APPLICATIONS

#### Ground Foliar Application

- Apply a minimum of 10 gallons per acre of water for field crops for thorough coverage, unless otherwise specified.
- Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use and replace worn or damaged nozzles.
- Use a jet agitator or liquid sparge tube for agitation.
- Use screens to protect the pump and to prevent nozzles from clogging. Check nozzle manufacturer's recommendations.
- For more information on spray equipment and calibration, consult sprayer manufacturers and state extension office recommendations.
- Do not make applications when conditions favor drift.

#### Aerial Foliar Application

- Apply a minimum of 2 gallons per acre of water for thorough coverage, unless otherwise specified.
- Mount the spray boom on the air tractor so as to minimize drift caused by wing tip vortices.
- The minimum practical boom length should be used and should not exceed 75% of the wingspan or rotor diameter.
- Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Partially fill the spray tank with clean water and begin agitation.
- Do not make applications when conditions favor drift.

**Aerial Spray Drift Advisory:** For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3-10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

#### Minimum Dilution Instructions

Application Method	Maximum Rate and Minimum Carrier Volume	Dilution Factor
In Furrow, 2x2, and Banded	8 fl oz/ac per minimum 2 gal/ac carrier volume	32
Ground Foliar	8 fl oz/ac per minimum 10 gal/ac carrier volume	160
Aerial Foliar	8 fl oz/ac per minimum 2 gal/ac carrier volume	32

## MIXING AND COMPATIBILITY

#### Mixing Instructions

- Vismax<sup>®</sup> Row Crop is a soluble liquid concentrate (SL) formulation.
- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- For thorough foliar coverage and penetration of foliage, Vismax<sup>®</sup> Row Crop should be applied with a non-ionic surfactant or surfactant blend at the indicated label rate for the target crop.

#### Vismax<sup>®</sup> Row Crop + Tank Mixes

Vismax<sup>®</sup> Row Crop is compatible with most herbicides, pesticides, bactericides, nematocides, fertilizers, nutritionals, adjuvants, and surfactants but has not been tested with all potential combinations. To ensure the physical compatibility of Vismax<sup>®</sup> Row Crop with tank mix partners, use a jar test described below.

#### Tank Mix Compatibility Test

Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables, emulsifiable concentrates and lastly soluble liquid concentrates (Vismax<sup>®</sup> Row Crop). Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. If the mixture balls-up, forms flakes, sludges, gels, oily film or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

#### Mixing Procedure for Tank Mixes

**Step 1:** Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank.

**Step 2:** With the agitator running, add tank-mix partner(s) in the following order: wettable powders, wettable granules, liquid flowables, emulsifiable concentrates, soluble liquid concentrates (Vismax<sup>®</sup> Row Crop) and surfactants.

**Step 3:** Allow material to completely dissolve and disperse into the mix water.

**Step 4:** Fill the spray tank with balance of water needed.

**Step 5:** Maintain agitation until the mixture has been applied.

**Note:** Avoid allowing spray mixture to stand overnight or for prolonged periods. No label dosage rate may be exceeded, and the most restrictive label precautions and limitations must be followed. This product may not be mixed with any product which prohibits such mixing. 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.

## USE PRECAUTIONS

**Crop Tolerance/Phytotoxicity:** Although plant tolerance has been found to be acceptable for all crops on the label, not all possible tank-mix combinations have been tested under all conditions. When possible, it is best practice to test the combinations on a small portion of the crop to ensure that phytotoxic response will not occur as a result of application.

**Surfactants:** This product does not contain a surfactant. For thorough coverage of foliage, use a non-ionic surfactant or surfactant blend approved for use on growing crops. Reference surfactant label for rate directions and mixing instructions. Do not use with unblended crop oils.

**Spray Drift:** Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering these factors when making decisions.

**Droplet Size:** Apply a medium to coarse droplet size using conventional application equipment.

**Specific Crop Instructions and Use Rates for Vismax® Row Crop**

Crop	Targeted Diseases	Application Method	Application Rate	Application Instructions
<b>Cereal Grains</b> <b>Crop Group 15 (Except corn and popcorn)</b> barley, buckwheat, pearl millet, Proso millet, oats, rice, rye, sorghum, teosinte, triticale, wheat, wild Rice <b>Crop Group 16</b> Includes forage, fodder, and straw of cereal grains group.	<b>Fusarium Head Blight</b> <i>(Fusarium graminearum)</i>	Foliar	4.0 – 8.0 fl oz/acre Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre	Apply up to 2 times per cropping season using ground or aerial equipment at vegetative and reproductive stages as a preventative treatment, or at first sign of disease.
	<b>Seedling Diseases</b> <i>(Fusarium spp.)</i>	Soil	4.0 - 8.0 fl oz/acre Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre See “Soil Applications” section for recommended rates per row spacing	Apply in-furrow or banded at planting as a preventative treatment for early season diseases.

Crop	Targeted Diseases	Application Method	Application Rate	Application Instructions
<b>Corn</b> <b>Crop Group 15</b> corn grown for seed, field corn, popcorn, silage, sweet corn	<b>Gray Leaf Spot</b> <i>(Cercospora zeae-maydis)</i> <b>Northern Leaf Blight</b> <i>(Exserohilum turcicum)</i> <b>Rusts</b> <i>(Puccinia spp.)</i> <b>Tar Spot</b> <i>(Phyllachora maydis)</i>	Foliar	4.0 – 8.0 fl oz/acre Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre	Apply up to 2 times per cropping season using ground or aerial equipment at vegetative and reproductive stages starting at V4 (4 leaf collars) as a preventative treatment, or at first sign of disease.
	<b>Gray Leaf Spot</b> <i>(Cercospora zeae-maydis)</i> <b>Rusts</b> <i>(Puccinia spp.)</i> <b>Seedling Diseases</b> <i>(Fusarium spp., Pythium spp.)</i> <b>Tar Spot</b> <i>(Phyllachora maydis)</i>	Soil	4.0 – 8.0 fl oz/acre Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre See “Soil Applications” section for recommended rates per row spacing	Apply in-furrow or banded at planting as a preventative treatment for early season diseases.

Crop	Targeted Diseases	Application Method	Application Rate	Application Instructions
Soybean Crop Group 6	<b>Frogeye Leaf Spot</b> ( <i>Cercospora sojina</i> )  <b>Septoria Brown Spot</b> ( <i>Septoria glycines</i> )	Foliar	4.0 – 8.0 fl oz/acre  Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre	Apply up to 2 times per cropping season using ground or aerial equipment at vegetative and reproductive stages as a preventative treatment, or at first sign of disease.
	<b>Seedling Diseases</b> ( <i>Fusarium</i> spp., <i>Rhizoctonia</i> spp.)	Soil	4.0 – 8.0 fl oz/acre  Equivalent to 2.37-4.73 mg Flg22-Bt Peptide/acre  See “Soil Applications” section for recommended rates per row spacing	Apply in-furrow or banded at planting as a preventative treatment for early season diseases.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

Store in a cool, dry place, away from children and pets. Keep from freezing.

### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING

Nonrefillable 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 ¼ 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.

## CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Limit of Warranties and Liabilities before using this product. If terms are not acceptable, return the unopened product at once for a refund of the purchase price.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties, and Limitations of Liability. These terms may only be modified by a written document signed by a duly authorized representative of Elemental Enzymes Ag & Turf, LLC.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Elemental Enzymes Ag & Turf, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**LIMIT OF WARRANTY AND LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ELEMENTAL ENZYMES AG & TURF, LLC WARRANTS THAT THE PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL CONDITIONS OF USE. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OF ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED. IN NO EVENT WILL THE COMPANY BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

U.S Patent 10,717,767

Flg22-Bt Peptide    Group    P 09    Fungicide



**Broad Spectrum Activator of Disease Resistance**

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<b>TOTAL:</b> .....	<b>100.000%</b>

## KEEP OUT OF REACH OF CHILDREN CAUTION

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EPA Reg. No.: 92188-4  
EPA Est. No.: 89402-OK-3



**Net Contents: 2.5 gal (9.46 L)**

Elemental Enzymes Ag & Turf, LLC  
1685 Galt Industrial Blvd  
St. Louis, MO 63132

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#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if inhaled. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE:

Store in a cool, dry place, away from children and pets. Keep from freezing.

#### PESTICIDE DISPOSAL:

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