

2023-0385  
2025-02-12

Container label

# Vimax<sup>®</sup> Seed Treatment

FUNGICIDE

SOLUTION

COMMERCIAL

## BIOACTIVE CROP PROTECTION

Vimax<sup>®</sup> Seed Treatment is an activator of plant defense for suppression of seed and seedling plant diseases caused by *Fusarium* spp.

### KEEP OUT OF REACH OF CHILDREN

**ACTIVE INGREDIENT:**

**By Weight**

Flg22-Bt Peptide: .....0.0048%

Contains 48 mg ai per Litre.

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0014% and 2-methyl-4-isothiazolin-3-one at 0.00048% as preservatives.

REGISTRATION NO: 35425 PEST CONTROL PRODUCTS ACT

Date of manufacture: \_See bottle

READ THE LABEL AND INSIDE LABEL BOOKLET BEFORE USING.  
PROTECT FROM FREEZING

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the *Seeds Act* must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

**Manufactured for:**

Elemental Enzymes Ag and Turf LLC  
1685 Galt Industrial Blvd.  
St. Louis, MO 63132  
314-429-2885

**Net Contents:**

**Formulated in the USA**

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**PRECAUTIONS**

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[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

**KEEP OUT OF REACH OF CHILDREN.** As good hygiene practice avoid contact with skin, eyes and clothing. Avoid inhaling the product.

DO NOT use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications at, or immediately before, planting.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

**FIRST AID:** Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF IN EYES:** 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 continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**IF INHALED:** 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.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**For mixing, loading, treating, and clean-up and repair, wear a long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves. Gloves are not required within a closed cab.**

**For bagging, stacking, and planting and handling of treated seeds, wear a long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves**

#### **ENVIRONMENTAL PRECAUTIONS**

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

#### **LABELLING OF TREATED SEED**

All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows:

- KEEP OUT OF REACH OF CHILDREN
- This seed has been treated with Vismax<sup>®</sup> Seed Treatment which contains Flg22-Bt Peptide.

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks when planting and handling treated seed.
- Gloves are not required within a closed cab.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface. Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.

### **STORAGE**

Store this product away from food or feed.

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

Vismax Seed Treatment should be used within 9 months of the date of manufacture.

### **DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

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

For containers less than or equal to 20 Litres:

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  $\frac{1}{4}$  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. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial/territorial requirements.

For containers greater than 20 Litres:

Nonrefillable container. DO NOT reuse or refill this container. Triple Rinse as follows: Empty 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. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial/territorial requirements.

For refillable containers:

Refillable container. The container must be refilled by the distributor/dealer with the same product. 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 refiller. To clean the 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.

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

(Booklet)

# Vimax<sup>®</sup> Seed Treatment

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## BIOACTIVE CROP PROTECTION

Vimax<sup>®</sup> Seed Treatment is a broad-spectrum activator of plant defense for suppression of seed and seedling plant diseases caused by *Fusarium* spp..

### ACTIVE INGREDIENT:

### By Weight

Flg22-Bt Peptide: .....0.0048%

Contains 48 mg ai per litre.

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0014% and 2-methyl-4-isothiazolin-3-one at 0.00048% as preservatives.

REGISTRATION NO: XXXXX PEST CONTROL PRODUCTS ACT

### KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING.  
PROTECT FROM FREEZING

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the *Seeds Act* must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

### Manufactured for:

Elemental Enzymes Ag and Turf LLC  
1685 Galt Industrial Blvd.  
St. Louis, MO 63132  
314-429-2885

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

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## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** As good hygiene practice avoid contact with skin, eyes and clothing. Avoid inhaling the product.

DO NOT use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications at, or immediately before, planting.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

**FIRST AID:** Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE):**

For mixing, loading, treating, and clean-up and repair, wear a long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves. Gloves are not required within a closed cab.

For bagging, stacking, and planting and handling of treated seeds, wear a long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves

Gloves are not required within a closed cab.

## **ENVIRONMENTAL PRECAUTIONS**

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

## **STORAGE**

Store this product away from food or feed.

Store in a cool, dry place, away from children and pets. Keep from freezing. Vismax Seed Treatment should be used within 9 months of the date of manufacture.

## **DISPOSAL**

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

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

*For containers less than or equal to 20 litres:*

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  $\frac{1}{4}$  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. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial/territorial requirements.

*For containers greater than 20 litres:*

Nonrefillable container. DO NOT reuse or refill this container. Triple rinse as follows: Empty 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. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial/territorial requirements.

*For refillable containers:*

Refillable container. The container must be refilled by the distributor/dealer with the same product. 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 refiller. To clean the 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.

## **DIRECTIONS FOR USE**

**READ ENTIRE LABEL BEFORE USING THIS PRODUCT.**

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### **PRODUCT INFORMATION**

Vismax<sup>®</sup> Seed Treatment protects against labelled soil-borne, seed-borne and early season post-emergence diseases by activating the plant immune system through direct action on plant receptors. Vismax<sup>®</sup> Seed Treatment should be applied in a tank mix to the seed in combination with one or more fungicides registered for the crop and disease target.

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### **APPLICATION AND MIXING INSTRUCTIONS**

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the Seeds Act must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

Apply Vismax® Seed Treatment as a water-based slurry in an application volume sufficient to provide uniform application, typically a minimum of 200 mL per 100 kg seed, utilizing standard seed treatment equipment which provides uniform seed coverage. Consult seed treater and accessory documentation for specific information on proper equipment calibration. Thorough coverage of seed is essential for effective disease control or suppression.

This product must be used only by commercial seed treatment facilities. Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

### MIXING DIRECTIONS

Polymers, colorants, fungicides, pesticides, and other additives should be tested for compatibility and seed safety prior to mixing with Vismax® Seed Treatment.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact **Elemental** Enzymes Ag and Turf LLC at 314-429-2885 for information before applying any tank mix that is not specifically recommended on this label.

### MIXING TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all mixing equipment to reduce the risk of forming hardened deposits, which might become difficult to remove.

Drain mixing equipment. Thoroughly rinse mixing equipment and flush with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Dispose of waste rinse water in accordance with local regulations.

### Use Rates for Vismax® Seed Treatment Seed Treatment

Soybean Seed Treatment Application	Use Rate (mL/100 kg seed)	Use Rate (mg ai/seed)	INSTRUCTIONS
For suppression of seed rot/pre- and post- emergent damping-off, seedling blight and root rot ( <i>Fusarium</i> spp.)	18	$1.40 \times 10^{-6}$	Mix in sufficient volume carrier or slurry for thorough seed coverage, typically a minimum of 200 mL per 100 kg seed.

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

The mg ai/seed rate provided is based on an average seed size of 6,160 seeds/kg. If treating seed with a different average seed size, recalculate the appropriate mL/100 kg seed rate. See example calculation, below

**Example calculation to determine the product application rate per 100 kg seed:**

To determine the amount of product (mL) to add to a 100 kg seed lot with a seed weight of **6160 seeds per kg**, for instance:

- **First**, multiply the 'Seeds per kg' by the 'Use Rate (mg a.i./seed)':

$$\begin{array}{ccccc}
 \boxed{6160} & \times & \boxed{1.40 \times 10^{-6} \text{ (or } 0.0000014\text{)}} & = & \boxed{0.008624} \\
 \text{Seeds per kg} & & \text{Use Rate (mg a.i./seed)} & & \text{mg a.i./kg seed}
 \end{array}$$

- **Second**, multiply the resulting number by 100 to determine the amount of active ingredient (a.i.) to be applied to 100 kg seed:

$$\begin{array}{ccccc}
 \boxed{0.008624} & \times & \boxed{100} & = & \boxed{0.8624} \\
 \text{mg a.i./kg seed} & & \text{kg seed} & & \text{mg a.i./100 kg seed}
 \end{array}$$

- **Third**, to determine the amount of product in mL to add to the 100 kg seed lot, multiply the resulting value by 1000 and divide by the amount of active ingredient per 1000 mL in the product (48 mg):

$$\left( \boxed{0.8624} \times \boxed{1000} \right) \div \boxed{48} = \boxed{18.0}$$

mg a.i./100 kg seed
mg a.i. per L product
mL product/100 kg seed

**Answer:** The application rate for this example is 18 mL product/100 kg seed.

For reference purposes, the product use rate for a range of soybean seed sizes is provided in the following table:

**Calculated product use rate (mL/100 kg soybean seed) for seed sizes ranging from 3000 to 8000 seeds/kg**

Soybean seed size (seeds/kg)	Use Rate (mL/100 kg seed)
3000	8.8
4000	11.7
5000	14.6
6000	17.5

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

7000	20.4
8000	23.3

[MASTER LABEL] [Brackets throughout label indicate optional/alternative graphics or text.]

#### **LABELLING OF TREATED SEED**

- All bags containing treated seed must be labelled or tagged as follows:
- **KEEP OUT OF REACH OF CHILDREN**
- This seed has been treated with Vismax® Seed Treatment which contains Flg22-Bt Peptide.
- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks when planting and handling treated seed.
- Gloves are not required within a closed cab.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface. Dispose of all excess treated seed. Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.

#### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.