



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 15, 2016

Patrick McCain  
Senior Regulatory Product Manager  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Label Amendment – Adds chickpea, cotton, potato, sugarbeet, sweet corn and globe artichoke to list of crops available for plantback; creates User Safety Requirements header; revises Environmental Hazards, Pollinator Precautions, Groundwater Advisory, Resistance Management, and seed bag label sections; updates mixing instructions; adds on-farm and commercial use statement; label reformatting and other minor revisions

Product Name: CruiserMaxx Vibrance Cereals  
EPA Registration Number: 100-1383  
Application Date: August 06, 2015  
Decision Number: 508190

Dear Mr. McCain:

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

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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.

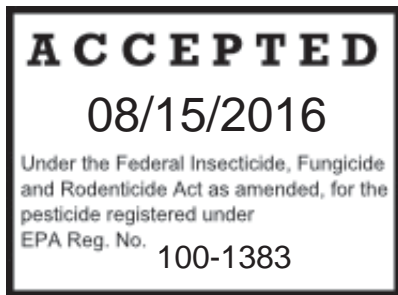
Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Fatima Sow by phone at (703) 347-8308, or via email at [sow.fatima@epa.gov](mailto:sow.fatima@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tony Kish". The signature is written in a cursive style with a large, sweeping initial "T".

Tony Kish, Product Manager 22  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure



(Master Label)

<b>GROUP</b>	<b>4A</b>	<b>INSECTICIDE</b>
<b>GROUP</b>	<b>3 4 7</b>	<b>FUNGICIDES</b>

**CruiserMaxx® Vibrance® Cereals**

Insecticide with Fungicides

A seed treatment product for protection against damage from certain insects and diseases of cereals.

Active Ingredient:

Sedaxane (CAS No. 874967-67-6) .....	0.72%
Difenoconazole (CAS No. 119446-68-3) .....	3.34%
Mefenoxam (CAS Nos. 70630-17-0 and 69516-34-3) .....	0.86%
Thiamethoxam (CAS No. 153719-23-4) .....	2.78%
<u>Other Ingredients:</u>	<u>92.30%</u>
Total:	100.00%

CruiserMaxx Vibrance Cereals is a flowable concentrate for seed treatment containing 0.067 pounds of sedaxane, 0.31 pounds of difenoconazole, 0.079 pounds of mefenoxam, and 0.26 pounds of thiamethoxam per gallon

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

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EPA Est.

- 2.5 gallons
- 15 gallons
- 30 gallons
- 110 gallons

\_\_\_\_\_gallons  
Net Contents

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first five minutes, then continuing rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<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 mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b>	

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## **PRECAUTIONARY STATEMENTS**

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### **Hazards to Humans and Domestic Animals**

#### **CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. 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
- Protective eyewear: faceshield, goggles, or safety glasses
- Shoes plus socks

### **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.

### **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.

### **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 product is toxic to fish, shrimp and wildlife and highly toxic to aquatic invertebrates. If treated seed is spilled outdoors or in areas accessible to birds, promptly clean up or bury to prevent ingestion. Do not contaminate water when disposing of equipment wash water or rinsate.

### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees, and effects may be possible as a result of exposure to translocated residues in blooming crops.

### **Groundwater Advisory**

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

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**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.**

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.

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.

Use is permitted on-farm and in commercial seed treatment facilities. Do not use for at-plant applications (e.g. hopper box, planter box, etc.). This product is to be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.

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 seasonal total for metalaxyl or mefenoxam as stated on the product label which allows for the lowest total amount of metalaxyl and mefenoxam on that crop per season.

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

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 CruiserMaxx Vibrance Cereals.

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## PRODUCT INFORMATION

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CruiserMaxx Vibrance Cereals is a seed treatment product containing the active ingredients: thiamethoxam (insecticide) and sedaxane, difenoconazole and mefenoxam (fungicides). CruiserMaxx Vibrance Cereals seed treatment protects against damage from wireworm and European chafer early season insects and also protects against certain seed-borne, soil-borne, and early season foliar diseases of cereal crops.

Thiamethoxam protects against certain chewing and sucking insects through contact and ingestion.

Sedaxane enhances the protections against *Ustilago* spp. and *Rhizoctonia* spp. Difenoconazole provides protection against several seed and seedling diseases of cereals. Mefenoxam provides protection against damping-off caused by *Pythium* spp.

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## RESISTANCE MANAGEMENT

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<b>GROUP 4A INSECTICIDE</b>
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CruiserMaxx Vibrance Cereals contains thiamethoxam, a Group 4A insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists. Insect populations may contain individuals naturally resistant to Group 4A insecticides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

### **In order to maintain susceptibility to this class of chemistry:**

- Use products at their full, recommended doses.
- Use appropriate, well-maintained equipment. Use recommended water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.



- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

**For additional information on Insect Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

<b>GROUP 3 4 7 FUNGICIDES</b>
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CruiserMaxx Vibrance Cereals contains difenoconazole, a Group 3 fungicide; mefenoxam, a Group 4 fungicide; and sedaxane, a Group 7 fungicide. Difenoconazole belongs to the triazole class of chemistry and is a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis of the fungal cell. 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.

Fungal populations may contain individuals naturally resistant to Group 3, 4, or 7 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

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>

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**MIXING INSTRUCTIONS**

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**Important:** Always re-circulate CruiserMaxx Vibrance Cereals thoroughly before using.

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

Apply CruiserMaxx Vibrance Cereals 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 insect or disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance Cereals 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. CruiserMaxx Vibrance Cereals is compatible with several liquid inoculant products. Consult the manufacturer of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance Cereals with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. 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.

- CruiserMaxx Vibrance Cereals contains an EPA approved dye/colorant that imparts an unnatural color to the seed as stated in 40 CFR 153.155(c).
- Allow seed to dry before bagging.

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## **SEED BAG LABEL REQUIREMENTS**

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The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with sedaxane, difenoconazole, and mefenoxam fungicides and thiamethoxam insecticide.
- Do not use for feed, food, or oil purposes.

In addition, the following statements are required on bags containing seeds treated with CruiserMaxx Vibrance Cereals:

- Pollinator Precaution: Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Groundwater Advisory: Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Thiamethoxam 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.
- Store away from food and feedstuffs.
- 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.
- Do not allow children, pets, or livestock to have access to treated seed.
- 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 doublesown 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 seed treated with CruiserMaxx Vibrance Cereals, crops may be replanted according to the following schedule:

**Plantback Interval Table**

Immediate Plantback	Minimum 30-Day Plantback Interval
Canola	Alfalfa
Cereal Grains: Barley, Oat, Rye, Sweet Corn, Triticale, and Wheat	<i>Brassica</i> (Cole) Leafy Vegetables Crop Group 5
Chickpea	Cereal Grains: Buckwheat, Field Corn, Pearl Millet, Popcorn, Proso Millet, Rice, Sorghum, Teosinte, and Wild Rice
Cotton	Cucurbit Vegetables Crop Group 9
Potato	Fruiting Vegetables Crop Group 8
Soybean	Leafy Vegetables Crop Group 4
Sugarbeet	Legume Vegetables (Succulent or Dried) Crop Group 6
	Mint: Peppermint and Spearmint
	Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower
	Onion, Bulb,
	Peanut
	Root and Tuber Vegetables Crop Group 1
	Strawberry
	Sunflower
	Tobacco

- For any other crops the minimum plantback interval is 120 days from the date the seeds treated with CruiserMaxx Vibrance Cereals were planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

- Do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with CruiserMaxx Vibrance Cereals.
- Do not use at a rate that will result in more than 0.08 lb thiamethoxam per acre (36.3 grams ai/A) per season.
- 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.

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## CROP USE DIRECTIONS

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### Restrictions:

The maximum number of applications per season is 2.

Crop	Insects Protection Against	Use Rate fl oz/ 100 lb
Barley	Wireworms <sup>1</sup> European Chafer <sup>2</sup>	5 -10

Crop	Disease	Use Rate fl oz/100 lb
Barley	General Seed Rots <sup>3</sup> Seedling Blight, Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling Blight, Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp. <sup>8</sup> Seed-borne <i>Septoria</i> <sup>4</sup> Covered Smut False Loose Smut True Loose Smut	5 -10

Crop	Diseases Suppressed <sup>5</sup>	Use Rate fl oz/100 lb
Barley	Common Root Rot ( <i>Cochliobolus</i> spp.) <i>Fusarium</i> Crown and Foot Rot Take-All	5 -10

Crop	Insects Protection Against	Use Rate fl oz/100 lb
Oats	Wireworms <sup>1</sup> European Chafer <sup>2</sup>	5 -10

<b>Crop</b>	<b>Diseases Controlled</b>	<b>Use Rate fl oz/100 lb</b>
Oats	General Seed Rots <sup>3</sup> Seedling Blight, Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling Blight, Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp. <sup>8</sup> Seed-borne <i>Septoria</i> <sup>4</sup> Covered Smut Loose Smut	5 -10

<b>Crop</b>	<b>Diseases Suppressed<sup>5</sup></b>	<b>Use Rate fl oz/100 lb</b>
Oats	Common Root Rot ( <i>Cochliobolus</i> spp.)	5 -10

<b>Crop</b>	<b>Insects Protection Against</b>	<b>Use Rate fl oz/100 lb</b>
Rye	Wireworms <sup>1</sup> European Chafer <sup>2</sup>	5 -10

<b>Crop</b>	<b>Diseases Protection Against the Following</b>	<b>Use Rate fl oz/100 lb</b>
Rye	General Seed Rots <sup>3</sup> Seedling Blight, Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling Blight, Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp. <sup>8</sup> Seed-borne <i>Septoria</i> <sup>4</sup> Common Bunt <sup>6</sup> Dwarf Bunt <sup>6</sup>	5 -10

<b>Crop</b>	<b>Diseases Suppressed<sup>5</sup></b>	<b>Use Rate fl oz/100 lb</b>
Rye	Common Root Rot ( <i>Cochliobolus</i> spp.) <i>Fusarium</i> Crown and Foot Rot Take-All	5 -10

<b>Crop</b>	<b>Insect Protections Against</b>	<b>Use Rate fl oz/100 lb</b>
Winter Wheat	Wireworms <sup>1</sup> European Chafer <sup>2</sup>	5 -10

<b>Crop</b>	<b>Diseases Protection Against the Following</b>	<b>Use Rate fl oz/100 lb</b>
Winter Wheat and Triticale	General Seed Rots <sup>3</sup> Seedling Blight, Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling Blight, Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp. <sup>8</sup> Seed-borne <i>Septoria</i> <sup>4</sup> <i>Septoria</i> Leaf Blotch <sup>4,7</sup> Common Bunt <sup>6</sup> Flag Smut Fusarium Seed Scab Dwarf Bunt <sup>6</sup> Karnal Bunt Loose Smut Pythium Damping Off <sup>8</sup>	5 -10

<b>Crop</b>	<b>Diseases Supressed<sup>5</sup></b>	<b>Use Rate fl oz/100 lb</b>
Winter Wheat and Triticale	Common Root Rot ( <i>Cochliobolus</i> spp.) <i>Fusarium</i> Crown and Foot and Root Rot Take-All	5 -10

<b>Crop</b>	<b>Insect Protection Against</b>	<b>Use Rate fl oz/100 lb</b>
Spring Wheat	Wireworms <sup>1</sup> European Chafer <sup>2</sup>	5 -10

<b>Crop</b>	<b>Diseases Protection Against the Following</b>	<b>Use Rate fl oz/100 lb</b>
Spring Wheat	General Seed Rots <sup>3</sup> Seedling Blight, Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling Blight, Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp. <sup>8</sup> Seed-borne <i>Septoria</i> <sup>2</sup> Fusarium Seed Scab Common Bunt <sup>6</sup> Karnal Bunt Loose Smut Pythium Damping Off <sup>8</sup>	5 -10

<b>Crop</b>	<b>Diseases Supressed<sup>5</sup></b>	<b>Use Rate fl oz/100 lb</b>
Spring Wheat	Common Root Rot ( <i>Cochliobolus</i> spp.) <i>Fusarium</i> Crown and Foot and Root Rot Take-All	5 -10

<sup>1</sup>The 5 fluid oz/100 lb rate of CruiserMaxx Vibrance Cereals provides suppression of wireworm activity. If pressure is moderate or high or control is required, use the higher rate of CruiserMaxx Vibrance Cereals.

<sup>2</sup>For control of European chafer activity, use the higher rate of CruiserMaxx Vibrance Cereals.

<sup>3</sup>Protection against general seed rots. This includes rots caused by saprophytic organisms such as *Fusarium*, *Pythium*, *Rhizoctonia*, *Penicillium* and *Aspergillus*.

<sup>4</sup>Use the 5 fluid oz/100 lb rate for protection against this disease.

<sup>5</sup>Suppression means consistent protection at a level which is not optimal but is still of commercial benefit.

<sup>6</sup>Protects against both seed- and soil-borne bunts (common, dwarf).

<sup>7</sup>Early season foliar disease protection for first 4 weeks after planting. For full season protection, apply a foliar fungicide according to label directions.

<sup>8</sup>For additional *Pythium* protection, add 0.0425 fl oz Apron XL®/100 lb seed.

## **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 toxic. 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 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, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons – mini-bulk]**

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 ¼ 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 - bulk]**

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 indicated 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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