

FLUDIOXONIL	GROUP 12	FUNGICIDE	MEFENOXAM	GROUP 4	FUNGICIDE
THIAMETHOXAM	GROUP 4A	INSECTICIDE	DIFENOCONAZOLE	GROUP 3	FUNGICIDE
SEDAXANE	GROUP 7	FUNGICIDE	PICARBUTRAZOX	GROUP U17	FUNGICIDE

PULL HERE TO OPEN ►

Escanee QR
para Español



syngenta®

A seed treatment product for protection against damage from certain insects and diseases of small grain cereals (barley, oats, rye, triticale, and wheat)

Active Ingredients:

Thiamethoxam ¹	11.20%
Difenoconazole ²	3.36%
Mefenoxam ³	0.84%
Fludioxonil ⁴	0.70%
Sedaxane ⁵	0.70%
Picarbutrazox ⁶	0.35%

Other Ingredients: 82.85%

Total: 100.00%

¹CAS No. 153719-23-4

²CAS No. 119446-68-3

³CAS Nos. 70630-17-0 and 69516-34-3

⁴CAS No. 131341-86-1

⁵CAS No. 874967-67-6

⁶CAS No. 500207-04-5

CruiserMaxx Vibrance Elite is a flowable concentrate containing 1.05 lb thiamethoxam, 0.31 lb difenoconazole, 0.08 lb mefenoxam, 0.07 lb fludioxonil, 0.07 lb sedaxane, and 0.03 lb picarbutrazox per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1751 EPA Est. 100-NE-001

SCP 1751B-L1 1025

4243891

2.5 gallons
Net Contents

®

TABLE OF CONTENTS

1.0 FIRST AID	
2.0 PRECAUTIONARY STATEMENTS	
2.1 Hazards to Humans and Domestic Animals	
2.2 Personal Protective Equipment (PPE)	
2.3 User Safety Requirements	
2.4 Engineering Controls	
2.5 User Safety Recommendations	
2.6 Environmental Hazards	
2.6.1 Pollinator Precautions	
2.6.2 Groundwater Advisory	
2.6.3 Surface Water Advisory	
2.7 Physical or Chemical Hazards	
3.0 PRODUCT INFORMATION	
3.1 Resistance Management	
3.1.1 Insecticide Resistance Management	
3.1.2 Fungicide Resistance Management	
4.0 APPLICATION DIRECTIONS	
4.1 Tank Mixtures	
5.0 RESTRICTIONS	
6.0 ROTATIONAL CROP RESTRICTIONS	
7.0 SEED CONTAINER LABEL REQUIREMENTS	
8.0 CROP USE DIRECTIONS	
8.1 Small Grain Cereals (Barley, Oats, Rye, Triticale, and Wheat)	
9.0 STORAGE AND DISPOSAL	
10.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY	

1.0 FIRST AID

FIRST AID	
If swallowed:	• 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 do so by a poison control center 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 center or doctor for treatment advice.
Have the product container with you when calling a poison control center or doctor, or going for treatment.	
SYNGENTA 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	

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Chemical-resistant gloves made of barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, neoprene rubber $\geq$ 14 mils, polyvinyl chloride (PVC) $\geq$ 14 mils and Viton™ $\geq$ 14 mils

Multiple Task Workers (who perform multiple daily tasks/duties such as mixing, bagging/filling seed containers, product application, bag sewing, and/or cleanup) must wear:

- Chemical-resistant gloves made of barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, neoprene rubber $\geq$ 14 mils, polyvinyl chloride (PVC) $\geq$ 14 mils and Viton $\geq$ 14 mils
- Chemical-resistant coveralls over long-sleeved shirt and long pants
- Shoes plus socks

2.3 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.

2.4 Engineering Controls

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. Users must rinse extraction probes within the pesticide container prior to removal of the probes.

2.5 User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticides get 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.

2.6 Environmental Hazards

This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Treated seeds exposed on the soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting. 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.

2.6.1 POLLINATOR PRECAUTIONS

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects are possible as a result of exposure to translocated residues in blooming crops.

2.6.2 GROUNDWATER ADVISORY

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Fludioxonil and thiamethoxam have 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.

2.6.3 SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of difenoconazole and thiamethoxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

2.7 Physical or Chemical Hazards

DO NOT use with or store near any oxidizing agents.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

For commercial or on-farm use. **DO NOT** use for at-plant applications (e.g., hopper box, planter box). This product is to be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.

DO NOT apply this product in a way that will contact workers or other personnel, 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.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE/INSECT 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. Then conduct germination tests with a portion of this treated 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 any crop seed treated with CruiserMaxx Vibrance Elite.

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.

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), notifications to workers, 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 planted, 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:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, neoprene rubber $\geq$ 14 mils, polyvinyl chloride (PVC) $\geq$ 14 mils and Viton $\geq$ 14 mils)
- Shoes plus socks

3.0 PRODUCT INFORMATION

CruiserMaxx Vibrance Elite is a broad-spectrum seed treatment product containing one insecticide active ingredient (thiamethoxam) and five fungicide active ingredients (difenoconazole, mefenoxam, fludioxonil, sedaxane, and picarbutrazox). Each active ingredient has a different mode of action. CruiserMaxx Vibrance Elite seed treatment protects against damage from listed early-season insects and certain seed- and soil-borne diseases of cereal crops.

Difenoconazole provides protection against several seed, seedling, and certain foliar disease including bunts and smuts. Mefenoxam protects against damping-off caused by *Pythium*. Fludioxonil provides protection against certain soil-borne and seed-borne diseases and is active against *Fusarium*, *Rhizoctonia*, and weakly pathogenic fungi such as *Aspergillus* and *Penicillium*. Sedaxane protects against *Rhizoctonia* and loose smuts (*Ustilago* spp.). Picarbutrazox provides early-season protection against *Pythium* and *Phytophthora* spp. that cause seed rot and damping-off.

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry that protects against aphids and wireworm.

3.1 Resistance Management

3.1.1 INSECTICIDE RESISTANCE MANAGEMENT

For resistance management, please note that CruiserMaxx Vibrance Elite contains thiamethoxam, a Group 4A insecticide. Any insect population may contain individuals naturally resistant to thiamethoxam and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists.

To delay insecticide resistance, take the following steps:

- Rotate the use of Group 4A insecticides (i.e., foliar sprays) within a growing season with different insecticide group(s) that control the same pests.

- Use tank mixtures with insecticides from a different group that is equally effective on the target pest when such use is permitted. **DO NOT** rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC).
 - o Individual insecticides selected for use in mixtures should be highly effective and applied at the rates at which they are individually registered for use against the target species.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management (IPM) program for insecticide use that includes scouting; uses historical information related to pesticide use, crop rotation, and record keeping; and considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.

For additional information on Insect Resistance Management:

- Contact Syngenta representatives at 1-866-796-4368.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

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

3.1.2 FUNGICIDE RESISTANCE MANAGEMENT

For resistance management, please note that CruiserMaxx Vibrance Elite contains difenoconazole, a Group 3 fungicide; mefenoxam, a Group 4 fungicide; sedaxane, a Group 7 fungicide; fludioxonil, a Group 12 fungicide; and picarbutrazox, a Group U17 fungicide. Any fungal population may contain individuals naturally resistant to other Group 3, Group 4, Group 7, Group 12, or Group U17 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.

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. Fludioxonil belongs to the phenylpyrrole class of chemistry, which interferes with osmotic signal transduction. Picarbutrazox belongs to the tetra-zolyloximes class of fungicides and is not known to be cross-resistant with fungicides that have different modes of action.

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

- Rotate the use of CruiserMaxx Vibrance Elite or other Group 3, Group 4, Group 7, Group 12, or Group U17 fungicides within a growing season 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.

4.0 APPLICATION DIRECTIONS

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

The typical density of CruiserMaxx Vibrance Elite is 9.35 pounds per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer's application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance Elite as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Seed treaters with atomizers or spinning discs are highly recommended for better product coverage on the seed. Uneven or incomplete seed coverage may not give the desired level of insect and disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance Elite into the required amount of water for the slurry treater and dilution rate to be used.

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.

Allow seed to dry before bagging.

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

CruiserMaxx Vibrance Elite contains an EPA approved dye/colorant that imparts an unnatural color to the seed as required by 40 CFR 153.155 (c).

4.1 Tank Mixtures

CruiserMaxx Vibrance Elite mixes easily with water and other water-based seed treatments manufactured by Syngenta. When mixing with products from other manufacturers, test 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.

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.

5.0 RESTRICTIONS

- **DO NOT** use for at-plant applications (e.g., hopper box, planter box). This product is to be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.
- **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift.
- Store treated seed away from feed and foodstuffs.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- 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 or planting.
- Treated seed must be planted greater than 1-inch deep.
- 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.

- 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 for agronomic practice.
- For seed treated with CruiserMaxx Vibrance Elite, **DO NOT** graze or feed livestock on treated areas for 45 days after planting.
- Regardless of type of application (seed treatment, soil or foliar), **DO NOT** apply more than 0.46 lb difenoconazole/A (208.7 g ai/A) per calendar year.
- **DO NOT** apply more than 0.097 lb mefenoxam/A (44 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.0178 lb picarbutrazox/A (8.1 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.016 lb sedaxane/A (7.3 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.0054 lb fludioxonil/A (2.5 g ai/A) per calendar year as a seed treatment.
- **For barley: DO NOT** apply more than 0.052 lb thiamethoxam/A (23.6 g ai/A) per calendar year as a seed treatment.
- **For oats, rye, and triticale: DO NOT** apply more than 0.04 lb thiamethoxam/A (18.4 g ai/A) per calendar year as a seed treatment.
- **For wheat: DO NOT** apply more than 0.08 lb thiamethoxam/A (36.3 g ai/A) per calendar year as a seed treatment.
- **DO NOT** make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with CruiserMaxx Vibrance Elite.
- This treated seed may be planted on the same acres up to 2 times per year.

6.0 ROTATIONAL CROP RESTRICTIONS

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

Crop, Crop Group, or Crop Subgroup	Plant-Back Interval
Barley, oat, rye, triticale, and wheat Canola Cotton Cucurbit vegetables Dried shelled pea and bean (except soybean) crop subgroup 6C Soybean Sweet corn	0 days
Alfalfa Brassica (cole) leafy vegetables Buckwheat, corn (except sweet corn), pearl millet, Proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, and wild rice Dry bulb onions Edible-podded Legume vegetables crop subgroup 6A Fruiting vegetables Leafy vegetables Mint (peppermint and spearmint) Oilseed crops (black mustard, borage, crambe, field mustard, flax, Indian mustard, Indian rapeseed, peanuts, rapeseed, and safflower) Root vegetables Strawberry Succulent shelled pea and bean crop subgroup 6B Sunflower Tobacco Tuberous and corm vegetables	30 days
All other crops intended for food and feed	120 days
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.	

7.0 SEED CONTAINER LABEL REQUIREMENTS

The Federal Seed Act requires that containers of treated seeds must be labeled with the following statements:

- This seed has been treated with difenoconazole, mefenoxam, fludioxonil, picarbutrazox, and sedaxane fungicides and thiamethoxam insecticide.
- **DO NOT** use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on containers of seeds treated with CruiserMaxx Vibrance Elite:

- Store treated seed away from feed and foodstuffs.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- 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 or planting.
- Treated seed must be planted greater than 1-inch deep.
- 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.
- 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 for agronomic practice.
- For seed treated with CruiserMaxx Vibrance Elite, **DO NOT** graze or feed livestock on treated areas for 45 days after planting.
- Regardless of type of application (seed treatment, soil or foliar), **DO NOT** apply more than 0.46 lb difenoconazole/A (208.7 g ai/A) per calendar year.
- **DO NOT** apply more than 0.097 lb mefenoxam/A (44 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.0178 lb picarbutrazox/A (8.1 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.016 lb sedaxane/A (7.3 g ai/A) per calendar year as a seed treatment.
- **DO NOT** apply more than 0.0054 lb fludioxonil/A (2.5 g ai/A) per calendar year as a seed treatment.
- **For barley: DO NOT** apply more than 0.052 lb thiamethoxam/A (23.6 g ai/A) per calendar year as a seed treatment.
- **For oats, rye, and triticale: DO NOT** apply more than 0.04 lb thiamethoxam/A (18.4 g ai/A) per calendar year as a seed treatment.
- **For wheat: DO NOT** apply more than 0.08 lb thiamethoxam/A (36.3 g ai/A) per calendar year as a seed treatment.
- **DO NOT** make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with CruiserMaxx Vibrance Elite.
- This treated seed may be planted on the same acres up to 2 times per year.
- **Groundwater Advisory:** Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Fludioxonil and thiamethoxam have 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.
- **Pollinator Precaution:** Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.

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

Crop, Crop Group, or Crop Subgroup	Plant-Back Interval
Barley, oat, rye, triticale, and wheat Canola Cotton Cucurbit vegetables Dried shelled pea and bean (except soybean) crop subgroup 6C Soybean Sweet corn	0 days
Alfalfa Brassica (cole) leafy vegetables Buckwheat, corn (except sweet corn), pearl millet, Proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, and wild rice Dry bulb onions Edible-podded Legume vegetables crop subgroup 6A Fruiting vegetables Leafy vegetables Mint (peppermint and spearmint) Oilseed crops (black mustard, borage, crambe, field mustard, flax, Indian mustard, Indian rapeseed, peanuts, rapeseed, and safflower) Root vegetables Strawberry Succulent shelled pea and bean crop subgroup 6B Sunflower Tobacco Tuberous and corm vegetables	30 days
All other crops intended for food and feed	120 days
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.	

8.0 CROP USE DIRECTIONS

8.1 Small Grain Cereals (Barley, Oats, Rye, Triticale, and Wheat)

Not Registered for Use by California

Target Pests/Diseases	USE RATE	
	fl oz/ 100 lb seed	g ai/100 kg seed
Early-season Pests Bird-cherry oat aphid English grain aphid Greenbug Russian wheat aphid Hessian fly Wireworm <i>Suppression only</i> ¹ Grasshopper Stored-Grain Pests Rusty grain beetle Saw-toothed grain beetle Red flour beetle Rice weevil Lesser grain beetle European corn borer Indian moth Diseases General seed rots ² 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. Septoria leaf blotch ³ Common bunt ⁴ Flag smut Fusarium seed scab Dwarf bunt ⁴ Karnal bunt Loose smut Pink snow mold (<i>Microdochium nivale</i> or <i>Monographella nivalis</i>) <i>Suppression only</i> ¹ Common root rot (<i>Cochliobolus</i> spp.) Fusarium crown rot, root rot, and foot rot Take-all	5.0	Picarbutrazox: 1.25 Fludioxonil: 2.5 Sedaxane: 2.5 Mefenoxam: 3.0 Difenoconazole: 12 Thiamethoxam: 40
Additional Use Directions		
¹ Suppression means consistent protection at a level which is not optimal but is still of commercial benefit. ² This includes seed rots caused by saprophytic organisms such as <i>Fusarium</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Penicillium</i> and <i>Aspergillus</i> . ³ Provides early-season foliar disease protection for first 4 weeks after planting. For full-season protection, apply a foliar fungicide according to label directions. ⁴ Protects against both seed- and soil-borne bunts (common, dwarf).		
Resistance Management: Refer to Section 3.1.		

9.0 STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers only. Do not store above 100° F. Keep container closed when not in use. Do not store near food or feed.

Pesticide Disposal

Pesticide wastes are toxic. 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. 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 of 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 $\frac{1}{4}$ 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 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 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 other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER

10.0 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 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.

CruiserMaxx®, Vibrance®, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON, are Trademarks of a Syngenta Group Company.



Viton™ is a trademark of The Chemours Company FC, LLC.

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-866-793-4368.

Manufactured for:
Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300

**SCP 1751B-L1 1025
4243891**

THIAMETHOXAM	GROUP	4A	INSECTICIDE
DIFENOCONAZOLE	GROUP	3	FUNGICIDE
MEFENOXAM	GROUP	4	FUNGICIDE
SEDAXANE	GROUP	7	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE
PICARBUTRAZOX	GROUP	U17	FUNGICIDE



A seed treatment product for protection against damage from certain insects and diseases of small grain cereals (barley, oats, rye, triticale, and wheat)

Active Ingredients:

Thiamethoxam ¹	11.20%
Difenoconazole ²	3.36%
Mefenoxam ³	0.84%
Fludioxonil ⁴	0.70%
Sedaxane ⁵	0.70%
Picarbrazox ⁶	0.35%

Other Ingredients: 82.85%

Total: 100.00%

¹CAS No. 153719-23-4

²CAS No. 119446-68-3

³CAS Nos. 70630-17-0 and 69516-34-3

⁴CAS No. 131341-86-1

⁵CAS No. 874967-67-6

⁶CAS No. 500207-04-5

CruiserMaxx Vibrance Elite is a flowable concentrate containing 1.05 lb thiamethoxam, 0.31 lb difenoconazole, 0.08 lb mefenoxam, 0.07 lb fludioxonil, 0.07 lb sedaxane, and 0.03 lb picarbrazox per gallon.

See additional precautionary statements and directions for use in booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1751

EPA Est. 100-NE-001

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Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1751B-L1 1025

4243891

KEEP OUT OF REACH OF CHILDREN. CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

If swallowed: 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 do so by a poison control center 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 center or doctor for treatment advice.

Have the product container with you when calling a poison control center or doctor, or going for treatment.

SYNGENTA 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 or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards: This product is toxic to wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Treated seeds exposed on the soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting. 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.

Pollinator Precautions: Thiamethoxam is highly toxic to bees exposed to direct treatment, 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 agricultural use. Fludioxonil and thiamethoxam have 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.

Surface Water Advisory: This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of difenoconazole and thiamethoxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

Physical or Chemical Hazards: DO NOT use with or store near any oxidizing agents.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original containers only. Do not store above 100° F. Keep container closed when not in use. Do not store near food or feed.

Pesticide Disposal: Pesticide wastes are toxic. 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. 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 of 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 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 other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER

2.5 gallons
Net Contents

syngenta®

