



STATE OF HAWAII  
Department of Agriculture

**ACCEPTED**

LICENSE NO. **9226.562**

GROUP **4A** INSECTICIDE

GROUP **4 7 12** FUNGICIDES

PULL HERE TO OPEN ►

# **CruiserMaxx<sup>®</sup> Vibrance<sup>®</sup>**

**syngenta<sup>®</sup>**

## **Insecticide with Fungicides**

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

*Active Ingredients:*

|                                 |        |
|---------------------------------|--------|
| Thiamethoxam <sup>1</sup> ..... | 20.80% |
| Mefenoxam <sup>2</sup> .....    | 3.13%  |
| Fludioxonil <sup>3</sup> .....  | 1.04%  |
| Sedaxane <sup>4</sup> .....     | 1.04%  |

*Other Ingredients* .....

**Total:** .....

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

**KEEP OUT OF REACH OF CHILDREN.**

## **CAUTION**

See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-1508 EPA Est. 100-NE-001

SCP 1508A-L1A 1214

4049484

Product ID **55590**

**15 gallons**  
Net Contents

TM

| <b>FIRST AID</b>  |  |
|---|--|
| <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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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><br>For 24-Hour Medical Emergency Assistance (Human or Animal)<br>or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),<br>Call<br><b>1-800-888-8372</b> |  |

| <b>PRECAUTIONARY STATEMENTS</b>  |
|--|
| <p><b>HAZARDS TO HUMANS AND DOMESTIC ANIMALS</b></p> <p style="text-align: center;"><b>CAUTION</b></p> <p>Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.</p> <p><b>PERSONAL PROTECTIVE EQUIPMENT (PPE)</b><br/> <b>Applicators and other handlers must wear:</b></p> <ul style="list-style-type: none"> <li>• Long-sleeved shirt and long pants.</li> <li>• Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils</li> <li>• Shoes plus socks.</li> </ul> <p>Follow the 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.</p> <p><b>ENGINEERING CONTROLS</b></p> <p>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.</p> |
| <p><b>USER SAFETY RECOMMENDATIONS</b></p> <p><b>Users should:</b></p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>  |
| <p><b>ENVIRONMENTAL HAZARDS</b></p> <p>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. Exposed treated seed may be hazardous to wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.</p>   |

*continued...*

## **PRECAUTIONARY STATEMENTS (continued)**

### **Pollinator Precautions**

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

### **Groundwater Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

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

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.**

Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

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

**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.

### USE INFORMATION

CruiserMaxx Vibrance is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, mefenoxam and sedaxane (fungicides). CruiserMaxx Vibrance protects against damage from listed early-season insects, soil-borne and seed-borne diseases on soybeans, dried shelled beans (*Vigna* and *Lupinus* spp.).

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against *Pythium*, *Phytophthora* and systemic downy mildew.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

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 the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

#### **RESISTANCE MANAGEMENT**

CruiserMaxx Vibrance contains thiamethoxam, a Group 4A insecticide; mefenoxam, a Group 4 fungicide; fludioxonil, a Group 12 fungicide; and sedaxane, a Group 7 fungicide.

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

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 extreme 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 your area.

CruiserMaxx Vibrance contains a Group 4A insecticide (thiamethoxam, belonging to the neonicotinoid class of chemistry). Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by CruiserMaxx Vibrance or other Group 4A insecticides.

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

- Avoid using Group 4A insecticides exclusively for season long-control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, apply CruiserMaxx Vibrance or other Group 4A insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated in the Directions for Use) of the Group 4A insecticides. Do not exceed the maximum CruiserMaxx Vibrance allowed per growing season.
- Following a treatment window of Group 4A insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 4A insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to this class of chemistry.
- If resistance is suspected, do not reapply CruiserMaxx Vibrance or any other Group 4A insecticides.

#### **Other Insect Resistance Management (IRM) practices include:**

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

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

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org/>.

CruiserMaxx Vibrance contains the fungicide mefenoxam, a systemic fungicide having a specific mode of action against fungal pathogens.

**Note:** The fungicide mefenoxam contained in this product could be subject to development of resistant strains of fungi or may be ineffective against naturally occurring strains of fungi. Development of resistance or natural tolerance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible resistant or tolerant strains of fungi which may occur.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

## MIXING PROCEDURES

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

The typical density of CruiserMaxx Vibrance is 9.56 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 application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance 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 is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

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

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

## SEED BAG LABEL REQUIREMENTS

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

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

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

- **Ground Water Advisory:** Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- Pollinator Precautions: Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be 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.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, *Brassica* (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was 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.
- Following potato seed pieces treated with sedaxane:  
No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7 grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application. For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year.  
This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a neonicotinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.
- The maximum number of applications per season is 2.

## CROP USE DIRECTIONS

When applied according to the CRUISERMAXX VIBRANCE RATE TABLE, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to Pythium, Phytophthora, Fusarium, Rhizoctonia species and early season Phytophthora root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne Sclerotinia and Phomopsis species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

**CruiserMaxx Vibrance Rate Table**

| Crop  | Use rate<br>(fl oz per 100 lb seed) |          | Grams active ingredient<br>per 100 kg seed   |                     |
|---|-------------------------------------|----------|--|---------------------|
|   | Cruiser Maxx<br>Vibrance            | Apron XL | Cruiser Maxx<br>Vibrance   | Apron XL            |
| <b>Dried Shelled Bean (except soybean) including:</b><br><b>Bean (All <i>Lupinus</i> species) including:</b><br>grain<br>sweet<br>white<br>white sweet lupin<br><b>Bean (All <i>Phaseolus</i> Species) including:</b><br>black bean<br>cranberry bean<br>field bean<br>great Northern bean<br>kidney bean<br>lima bean<br>navy bean<br>pinto bean<br>runner bean<br>snap bean<br>small red bean<br>tepary bean<br>wax bean<br>yellow bean | 3.22                                | 0.32     | Thiamethoxam 50 gm<br><br>Mefenoxam 7.5 gm<br><br>Fludioxonil 2.5 gm<br><br>Sedaxane 2.5 gm<br><br>Total = 62.5 gm | Mefenoxam<br>7.5 gm |

continued...

**CruiserMaxx Vibrance Rate Table (continued)**

| Crop  | Use rate<br>(fl oz per 100 lb seed) |          | Grams active ingredient<br>per 100 kg seed   |                     |
|---|-------------------------------------|----------|--|---------------------|
|   | Cruiser Maxx<br>Vibrance            | Apron XL | Cruiser Maxx<br>Vibrance   | Apron XL            |
| <b>Bean (All <i>Vigna</i> species)</b><br>including:<br>adzuki bean<br>asparagus bean<br>blackeyed pea<br>catjang<br>Chinese longbean<br>cowpea<br>Crowder pea<br>moth bean<br>mung bean<br>rice bean<br>southern pea<br>urd bean<br>yardlong bean<br><b>Broad bean</b> (fava<br>Bean, dry) | 3.22                                | 0.32     | Thiamethoxam 50 gm<br>Mefenoxam 7.5 gm<br>Fludioxonil 2.5 gm<br>Sedaxane 2.5 gm<br>Total = 62.5 gm | Mefenoxam<br>7.5 gm |

**CruiserMaxx Vibrance Rate Table<sup>1</sup>**

| Crop   | Rate of CruiserMaxx Vibrance   |  |  |
|--|--|--|--|
|  | fl oz per<br>100 lb seed <sup>1</sup><br>or<br>fl oz per<br>140,000 seeds <sup>1</sup> | grams ai per<br>100 kg seed  | mg ai per seed                                 |
| Soybean,<br>including<br>soybean,<br>vegetable | 3.22 fl oz<br>or<br>1.50 fl oz per<br>140,000 seeds                                    | Thiamethoxam 50 gm<br>Mefenoxam 7.5 gm<br>Fludioxonil 2.5 gm<br>Sedaxane 2.5 gm<br>Total = 62.5 gm | Total of all active ingredients =<br>0.0945 mg |

<sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

**STORED GRAIN PROTECTION**

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance will also provide protection during post treatment storage of the seed listed on this label against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance and bagging.

## **STORAGE AND DISPOSAL**

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

### **Pesticide Storage**

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

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 procedures and disposal of wastes.

### **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. 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  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons – 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  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons – 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.

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

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



Viton® trademark of E. I. du Pont de Nemours & Company, Inc.

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

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

**SCP 1508A-L1A 1214**  
**4049484**

GROUP 4A INSECTICIDE

GROUP 4 7 12 FUNGICIDES



## Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects, seed-borne diseases, and seedling diseases on soybean and dried shelled beans including all Vigna and Lupinus species.

### Active Ingredients:

|                                 |        |
|---------------------------------|--------|
| Thiamethoxam <sup>1</sup> ..... | 20.80% |
| Mefenoxam <sup>2</sup> .....    | 3.13%  |
| Fludioxonil <sup>3</sup> .....  | 1.04%  |
| Sedaxane <sup>4</sup> .....     | 1.04%  |
| Other Ingredients .....         | 73.99% |

Total: 100.00%

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

See additional precautionary statements and directions for use in booklet.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### 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. 100-1508

EPA Est. 100-NE-001

Product ID **55590**

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Manufactured for:

Syngenta Crop Protection, LLC

P.O. Box 18300

Greensboro, North Carolina 27419-8300

SCP 1508A-L1A 1214

4049484

# 15 gallons

Net Contents

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

#### CAUTION

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

#### 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor or going for treatment. **HOT LINE NUMBER**: For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), call **1-800-888-8372**.

**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. Exposed treated seed may be hazardous to wildlife. 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 may be possible as a result of exposure to translocated residues in blooming crops.

**Groundwater Advisory**: Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**Physical and Chemical Hazards**: Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

## STORAGE AND DISPOSAL

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

**Pesticide Storage**: Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

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 procedures and disposal of wastes.

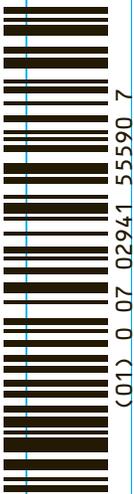
#### Pesticide Disposal

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

**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 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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





**SUPPLEMENTAL LABELING**

**Syngenta Crop Protection, LLC**  
P. O. Box 18300  
Greensboro, North Carolina 27419-8300  
SCP 1508A-S1 1214

**GROUP 4A INSECTICIDE**

**GROUP 4 7 12 FUNGICIDES**

**CruiserMaxx® Vibrance®**

Insecticide with Fungicides

Seed treatment on dried shelled beans and soybeans

**This supplemental label expires on 11/ 21/2017 and must not be used or distributed after this date.**

Active Ingredients:

|                                 |                |
|---------------------------------|----------------|
| Thiamethoxam <sup>1</sup> ..... | 20.80%         |
| Mefenoxam <sup>2</sup> .....    | 3.13%          |
| Fludioxonil <sup>3</sup> .....  | 1.04%          |
| Sedaxane <sup>4</sup> .....     | 1.04%          |
| <u>Other Ingredients: .....</u> | <u>73.99%</u>  |
| <u>Total: .....</u>             | <u>100.00%</u> |

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 131341-86-1

<sup>4</sup>CAS No. 874967-67-6

One gallon of CruiserMaxx Vibrance contains 1.99 lb thiamethoxam, 0.30 lb mefenoxam, 0.10 lb fludioxonil and 0.10 lb sedaxane.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

**EPA Reg. No. 100-1508**



## DIRECTIONS FOR USE

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

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using CruiserMaxx® Vibrance® as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application.

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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 thiamethoxam insecticide and fludioxonil, mefenoxam, and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.
- Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

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

- **Ground Water Advisory:**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- **Pollinator Precautions:**

Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.

- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be 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.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with CruiserMaxx Vibrance.
- In the event of a crop failure or harvest of a crop grown from CruiserMaxx Vibrance treated seed, the field may be replanted immediately to canola, soybean, barley, oat, rye, triticale and wheat.
- Alfalfa, *Brassica* (cole) leafy vegetables, buckwheat, corn, pearl millet, proso millet, popcorn, rice (dry-seeded), sorghum, teosinte, wild rice, cotton, cucurbit vegetables, dry bulb onions, fruiting vegetables, leafy vegetables, legume vegetables, mint (peppermint and spearmint), oil seed crops (black mustard seed, borage seed, crambe seed, field mustard seed, flax seed, Indian mustard seed, Indian rapeseed seed, peanuts, rapeseed seed, and safflower seed), root vegetables, strawberry, sunflowers, tobacco, and tuberous and corm vegetables may be planted 30 days from the date the CruiserMaxx Vibrance treated seed was planted.
- For any other crop, the minimum plant back interval is 120 days from the date the CruiserMaxx Vibrance treated seed was 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.
- Following potato seed pieces treated with sedaxane:
  - No sedaxane treated seeds may be planted for a 24-month period following planting of sedaxane treated potato seed pieces.
- For soybeans: Do not use at a rate that will result in more than 0.125 lb thiamethoxam per acre (56.7grams ai/A) per year, regardless of type of application (seed treatment and/or foliar). Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year as a seed treatment application.
- For dried shelled beans (except soybeans): Do not use at a rate that will result in more than 0.083 lb thiamethoxam per acre (37.8 grams ai/A) per year. This seed has been treated with 0.0756 mg ai thiamethoxam per seed.
- With the exception of soybeans, do not make any soil or foliar application of products containing thiamethoxam to crops grown from seed treated with a

neonicotinoid insecticide. For soybeans, do not apply a neonicotinoid insecticide within 45 days of planting seed treated with CruiserMaxx Vibrance.

- The maximum number of applications per season is 2.

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## **CROP USE DIRECTIONS**

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When applied according to the **CRUISERMAXX VIBRANCE RATE TABLE**, CruiserMaxx Vibrance provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

CruiserMaxx Vibrance provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot as well as Anthracnose on dry bean caused by seed-borne *Colletotrichum* spp. CruiserMaxx Vibrance also suppresses seed-borne *Sclerotinia* and *Phomopsis* species. Additional Apron XL may be necessary for high levels of *Phytophthora* or *Pythium*. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label direction for Apron XL use.

**CruiserMaxx Vibrance Rate Table**

| Crop   | Use rate<br>(fl oz per 100 lb seed) |          | Grams active ingredient<br>per 100 kg seed   |                     |
|--|-------------------------------------|----------|--|---------------------|
|  | Cruiser Maxx Vibrance               | Apron XL | Cruiser Maxx Vibrance  | Apron XL            |
| <b>Dried Shelled Bean<br/>(except soybean)<br/>including:<br/>Bean (All <i>Lupinus</i><br/>species) including:</b><br>grain<br>sweet<br>white<br>white sweet lupin<br><b>Bean (All <i>Phaseolus</i><br/>Species) including:</b><br>black bean<br>cranberry bean<br>field bean<br>great Northern bean<br>kidney bean<br>lima bean<br>navy bean<br>pinto bean<br>runner bean<br>snap bean<br>small red bean<br>tepary bean<br>wax bean<br>yellow bean<br><b>Bean (All <i>Vigna</i><br/>species) including:</b><br>adzuki bean<br>asparagus bean<br>blackeyed pea<br>catjang<br>Chinese longbean<br>cowpea<br>Crowder pea<br>moth bean<br>mung bean<br>rice bean<br>southern pea<br>urd bean<br>yardlong bean<br><b>Broad bean (fava<br/>Bean, dry)</b> | 3.22                                | 0.32     | Thiamethoxam 50 gm<br>Mefenoxam 7.5 gm<br>Fludioxonil 2.5 gm<br>Sedaxane 2.5 gm<br>Total = 62.5 gm | Mefenoxam<br>7.5 gm |

| Crop                                  | Rate of CruiserMaxx Vibrance   |  |   |
|---------------------------------------|--|--|---|
| Soybean, including soybean, vegetable | fl oz per 100 lb seed <sup>1</sup><br>or<br>fl oz per 140,000 seeds <sup>1</sup> | grams ai per 100 kg seed   | mg ai per seed                              |
|                                       | 3.22 fl oz<br>or<br>1.50 fl oz per 140,000 seeds                                 | Thiamethoxam 50 gm<br>Mefenoxam 7.5 gm<br>Fludioxonil 2.5 gm<br>Sedaxane 2.5 gm<br>Total = 62.5 gm | Total of all active ingredients = 0.0945 mg |

<sup>1</sup>The mg ai per seed, fl oz CruiserMaxx Vibrance per 100 lb seed, and fl oz CruiserMaxx Vibrance per 140,000 seeds rates are based on 3,000 seeds per pound.

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