

100-1382

6/20/2012

just 10/15



U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

100- 1382

Date of Issuance

JUN 2 0 2012

NOTICE OF PESTICIDE

Registration
 Reregistration
(under FIFRA as amended)

Term of Issuance
Conditional

Name of Pesticide Product
Vibrance™ Extreme

Name and Address of Registrant (include ZIP Code)

Syngenta Crop Protection, Inc
P O Box 18300
Greensboro, NC 27419

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you

- 1 Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data
- 2 Revise the EPA Registration Number to read, "EPA Reg No 100- 1382 "

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Signature of Approving Official

Date

JUN 2 0 2012

Marcel Howard, Acting Product Manager (20)
Fungicide Branch, Registration Division (7505P)

- 3 Submit or cite the following data which has previously been required for mefenoxam
 - a Acute and Subchronic Neurotoxicity Battery studies (test guidelines 870 6200a and 870 6200b) were required by the Agency on February 24, 2011 Acceptable studies or a citation to acceptable studies must be received by the Agency by June 17, 2013
 - b An Immunotoxicity Study (test guideline 870 7800) was required by the Agency on February 24, 2011 An acceptable study or a citation to an acceptable study must be received by the Agency by June 17, 2012

- 4 Submit or cite the following data which has previously been required for difenoconazole
 - a An estuarine/marine invertebrate life cycle study (test guideline 850 1350) was required by the Agency on June 22, 2011 An acceptable study or a citation to an acceptable study must be submitted to the Agency by June 15, 2013

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy of the label is enclosed for your records

Sincerely,



Marcel Howard
Acting Product Manager (20)
Fungicide Branch
Registration Division (7505P)

Enclosure Label stamped "Accepted"

[Booklet]

Vibrance™ Extreme**Fungicide**

A seed treatment for protection against certain diseases of barley oats, rye, triticale, and wheat

Active Ingredient

Sedaxane (CAS No 874967-67-6)	1 22%
Difenoconazole (CAS No 119446-68-3)	5 86%
Mefenoxam (CAS Nos 70630-17-0 and 68516-34-3)	1 46%
Other Ingredients	91 46%
Total	100 00%

Vibrance Extreme contains 0 115 pounds of sedaxane 0 552 pounds of difenoconazole, and 0 138 pounds of mefenoxam per gallon

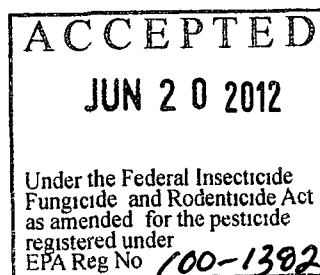
KEEP OUT OF REACH OF CHILDREN**CAUTION**

See additional precautionary statements and directions for use inside booklet

EPA Reg No 100-

EPA Est

2 5 gallons
30 gallons
110 gallons



FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes • Remove contact lenses, if present after the first five minutes, then continuing rinsing eye • Call a poison control center or doctor for treatment advice
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice • Have the 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 to an unconscious person
If on skin or clothing	<ul style="list-style-type: none"> • 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
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible • Call a poison control center or doctor for treatment advice
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	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation Avoid contact with eyes or clothing Wear protective eyewear Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart

Applicators and other handlers must wear

- Long-sleeved shirt and long pants
- 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
- Shoes plus socks

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 Control Statements

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 and other aquatic invertebrates. For terrestrial uses, Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate. If treated seed is spilled outdoors or in areas accessible to birds, promptly clean up or bury to prevent ingestion.

Groundwater Advisory

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

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.

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

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 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 ≥14 mils, nitrile rubber ≥14 mils neoprene rubber ≥14 mils polyvinyl chloride (PVC) ≥14 mils, Viton® ≥14 mils
- Shoes plus socks

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

PRODUCT INFORMATION

Vibrance Extreme is a systemic seed treatment that provides protection against certain seed-borne soil-borne, and early season foliar diseases of wheat, barley oats rye and triticale The active ingredients in Vibrance Extreme are sedaxane, difenoconazole and mefenoxam Sedaxane enhances the protections against *Ustilago* sp and *Rhizoctonia* sp in cereals Difenoconazole provides protection against several seed, seedling certain foliar diseaseof cereals Mefenoxam provides protection against damping-off caused by *Pythium* sp

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

Note Mefenoxam is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi Development of insensitivity cannot be predicted Therefore Syngenta cannot assume liability for crop damage resulting from insensitive strains of fungi Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible mefenoxam insensitive strains of fungi which may occur

Resistance Management

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

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 fungal pests on this label

MIXING INSTRUCTIONS

Apply Vibrance Extreme as a water-based slurry utilizing standard slurry 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 Vibrance Extreme into the required amount of water for the slurry and dilution rate to be used Follow the manufacturer instructions for the seed treatment equipment being used Maintain constant agitation of the slurry during the treatment If application is stopped maintain agitation of slurry until all of the slurry has been used Vibrance Extreme contains an EPA-approved/colorant that imparts an unnatural color to the seed as required by the Federal Seed Act Allow seed to dry before bagging

TANK MIXES

Tank mix when a problem is expected with the diseases that are not controlled by Vibrance Extreme. Confirm physical compatibility, seed safety, seed safety in stored seed, and biological efficacy before tank mixing with other seed treatment products.

Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibiting such mixing.

For protection from various insects on registered crops, Vibrance Extreme seed treatment may be mixed with Cruiser® 5FS seed treatment insecticide in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipments only. This tank-mix option is only valid for those crops common to the registered labels of Vibrance Extreme seed treatment and Cruiser 5FS seed treatment insecticide. Follow all appropriate directions, precautions, as specified on the respective product labels.

SEED BAG LABEL REQUIREMENT

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
- 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

In addition the U S Environmental Protection Agency requires the following statements on bags containing seed treated with Vibrance Extreme fungicide

- Store away from food and feedstuffs
- Do not allow children, pets or livestock to have access to treated seeds
- Wear long-sleeved shirt, long pants, and waterproof gloves when handling treated seed
- Treated seeds exposed on soil surface may be hazardous to wildlife Cover or collect treated seeds spilled during loading
- Dispose of all excess treated seed Left over 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 washwater
- Dispose of seed packaging in accordance with local requirements
- In the event of crop failure or harvest of a crop grown from Vibrance Extreme treated seed, the field may be replanted immediately to canola, soybean, and cereal grains (barley oat, rye, triticale, and wheat) All other crops may not be planted until 30 days after planting treated seeds
- 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 ethanol by-products that are used for agronomic practice
- The maximum number of applications per season is 2

CROP USE DIRECTIONS

Restrictions

The maximum number of applications per season is 2

Crop	Diseases Protection Against the Following	Rate (fl oz/100 lb seed)
Barley	General Seed Rots ¹ Seedling Blight Root Rot Damping-off caused by Seed- and soil-borne <i>Fusarium</i> spp or <i>Rhizoctonia</i> spp Seedling Blight Root Rot Damping-off caused by soil-borne <i>Pythium</i> spp Seed-borne <i>Septoria</i> ² Covered Smut False Loose Smut True Loose Smut	2 8-5 6

Crop	Diseases Suppressed ³	Rate (fl oz/100 lb seed)
Barley	Common Root Rot (<i>Cochliobolus</i> spp) <i>Fusarium</i> Crown and Foot Rot Take-All	2 8-5 6

Crop	Diseases Protection Against the Following	Rate (fl oz/100 lb seed)
Oats	General Seed Rots ¹ 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 Covered Smut Loose Smut	2 8-5 6

Crop	Diseases Suppressed ³	Rate (fl oz/100 lb seed)
Oats	Common Root Rot (<i>Cochliobolus</i> spp)	2 8-5 6

Crop	Diseases Controlled	Rate (fl oz/100 lb seed)
Rye	General Seed Rots ¹ 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 Seed-borne <i>Septoria</i> ² Common Bunt ⁴ Dwarf Bunt ⁴	2 8-5 6

Crop	Diseases Suppressed ³	Rate (fl oz/100 lb seed)
Rye	Common Root Rot (<i>Cochliobolus</i> spp) <i>Fusarium</i> Crown and Foot Rot Take-All	2 8-5 6

Crop	Diseases Protection Against the Following	Rate (fl oz/100 lb seed)
Winter Wheat and Triticale	General Seed Rots ¹ 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 Seed-borne <i>Septoria</i> ² <i>Septoria</i> Leaf Blotch ^{2 5} Common Bunt ⁴ Dwarf Bunt ⁴ Karnal Bunt Flag Smut <i>Fusarium</i> Seed Scab Loose Smut <i>Pythium</i> Damping Off	2 8-5 6

Crop	Diseases Supressed ³	Rate (fl oz/100 lb seed)
Winter Wheat	Common Root Rot (<i>Cochliobolus</i> spp) <i>Fusarium</i> Crown and Foot or Root Rot Take-All	2 8-5 6

Crop	Diseases Protection Against the Following Diseases Supressed ³	Rate (fl oz/100 lb seed)
Spring Wheat	General Seed Rots ¹ Seedling Blight Root Rot, and Damping-Off caused by seed- and soil-borne <i>Fusarium</i> spp or <i>Rhizoctonia</i> spp Seed-borne <i>Septoria</i> ² Seedling Blight Root Rot, and Damping-Off caused by soil-borne <i>Pythium</i> spp Common Bunt ⁴ Fusarium Seed Scab Karnal Bunt Loose Smut Pythium Damping Off	2 8-5 6

Crop	Diseases Supressed ³	Rate (fl oz/100 lb seed)
Spring Wheat	Common Root Rot (<i>Cochliobolus</i> spp) <i>Fusarium</i> Crown and Foot and Root Rot Take-All	2 8-5 6

¹Active on pathogens that cause general seed rots This includes those caused by saprophytic organisms such as *Fusarium Pythium Rhizoctonia Penicillium* and *Aspergillus*

²Use the 5 6 fluid ounce per 100 lbs for protection against this disease

³Suppression means consistent protection at a level which is not optimal but is still of commercial benefit

⁴Provides protection against both seed- and soil-borne bunts (common dwarf)

⁵Early season foliar disease protection for first 4 weeks after planting For full season protection apply a foliar fungicide according to label directions

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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 of the nearest EPA Regional Office for guidance

Container Handling [less than 5 gallons]

Non-refillable container Do not reuse or refill this container Offer for recycling if available 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 and 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 allowed by state and local authorities

Container Handling [greater than 5 gallons]

Non-refillable container Do not reuse or refill this container Offer for recycling if available 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 allowed by state and local authorities

Container Handling [Bulk/Mini-bulk]

Refillable container Refill this container with pesticide only Do not use this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean 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 allowed 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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