



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 Ariel Rios Building
 1200 Pennsylvania Ave., NW
 Washington, D.C. 20460

EPA Reg. Number:
400-112

Date of Issuance:
SEP 16 2008

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Terms of Issuance:
Conditional

Name of Pesticide Product:
Vitavax 200

Name and Address of Registrant (include ZIP Code):

Attn: Michael Dupre
Chemtura Corporation
199 Benson Rd
Middlebury, CT 06749

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 reregistered 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.

Based on your response to the Reregistration Eligibility Document(s) for **Carboxin** and **Thiram**, EPA has reregistered the product listed above provided that the following changes are made to the label:

1. On page 2, delete from the Hazards of Human statement, "Avoid contact with eyes or clothing."

Signature of Approving Official:

Tony Kish
 Product Manager (22)
 Fungicide Branch
 Registration Division (7505P)

Date:

SEP 16 2008

- 2. On page 2, under PPE, delete *“For exposures in enclosed areas: A respirator with an....canister with any R, P, or HE prefilter. For exposure outdoors: Dust/mist filtering respirator...with any P, R, or HE filter.”*
 - A. From the “All mixers...” section, delete “except when bagging or sewing bags of treated seeds,” to correct noticeable inconsistencies with label guidance.

- 3. On page 2, in the Environmental Hazards section, delete current statement and add the following, *“This pesticide is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate or by disposal of wastes. Plant cotton, barley, wheat, and oat seed a minimum of one inch deep. Collect spilled seed. Treated seed exposed on soil surface is hazardous to birds.*

Treated seeds are hazardous to fish, birds, and mammals. Do not plant treated seed by broadcasting to the soil surface. Ensure that all seeds are thoroughly covered with soil, especially in turn areas. If seeds are not thoroughly incorporated by the planter during planting, additional incorporation may be required to thoroughly cover exposed seeds.

- 4. Add to the “Seed labeling,” section: *“This product may have effects on federally listed threatened or endangered species or their critical habitat in some counties. It is a violation of federal law to kill, harm or harass listed animal species without authorization. To limit the potential for such impacts when using this product, consult and follow the instructions provided in the EPA Endangered Species Bulletin for the County or Parish in which you are applying the seed. To determine whether your County or Parish has a bulletin consult <http://www.epa.gov/espp> before each season’s use of this product. Bulletins also may be available from local pesticide dealers, extension offices, or State pesticide agencies.”*

- 5. In the ‘Seed Labeling’ section, beginning on page 3 through page 4, include opening and closing quotations for, *“Treated seed...Do not use... cover exposed seeds”* so that it is clear where the guidance begins and ends.
 - A. Thereafter, delete the remaining three sentences, *“Do not apply water... 1 inch deep.”*

- 6. In the ‘Agricultural Use Requirements’ box, on page 3, under the subsection ‘Exception:’, delete *“treated seeds”* from the end of the sentence, and add *“soil/media subsurface”*

- 7. On page 3, in Agricultural Use Requirements, under Early Entry PPE:, delete *“protective eyewear”*

- 8. On page 3, in the ‘Seed Labeling’ section, must be reformatted to improve the section’s legibility, by inserting, *“When opening this bag...”* on a new line.”

- 9. The “Directions for Use” section, referring to ‘Cotton’ seed treatment, on page 3, requires, *“The maximum application rate for cotton seed is 1.0 oz ai/cwt (625 ppm).”*

- 10. On page 4, in Container Disposal, delete "Plastics & Returnables", add Nonrefillable Plastic Containers."
- 11. On page 4, in Container Disposal, delete "Metal", add "Nonrefillable Metal Containers"
- 12. "Storage and Disposal" subsection "Pesticide Storage," on page 4, must include, "Keep container closed when not in use. Do not store near food or feed. Stir before use."
 - A. In the "Pesticide Disposal" and "Container Disposal" subsections, insert appropriate spacing after the first sentence.
- 13. Under the "Important Notice" section, on page 4, revise the sentence to read, "...buyer assumes the risk of any such use to the extent permitted by applicable law." As currently written, the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, thus suggestive of misbranding.

This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted with Comments" is enclosed for your records.

Regarding the Special Local Need registrations associated with this parent product registration (AL790017, GA790021, and ND90005), the Agency considers all label corrections herein to be applicable, and therefore, labeling must be revised accordingly. The Agency has no adverse comments regarding the revised labeling submitted in connection with registration under FIFRA section 24(c) and in response to the RED, so long as the seed bag labeling changes herein are satisfied.

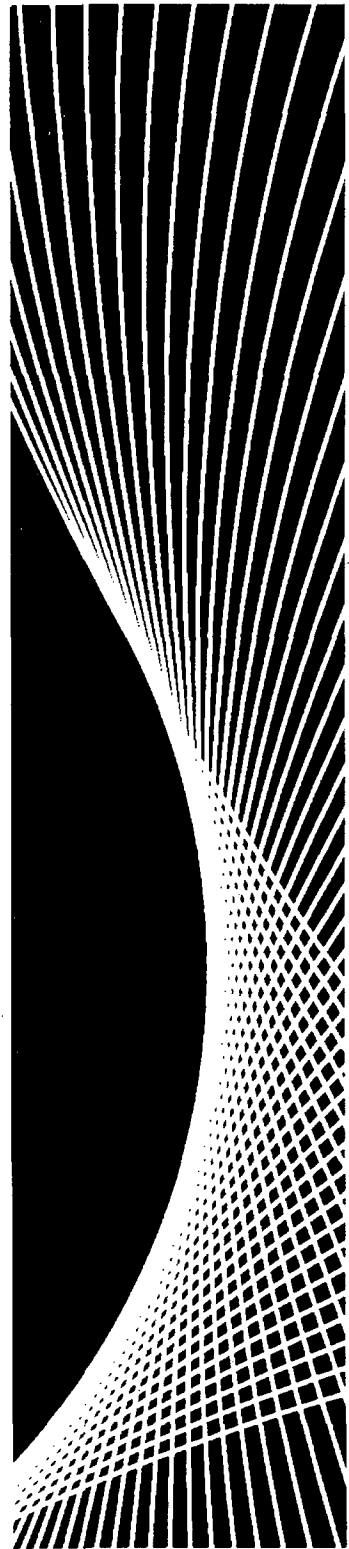
Please forward a copy of the revised SLN labeling to the appropriate State official(s) for their comment/approval. Any additional State-stipulated wording or limitations, including reference to applicable State Rules or Regulations or updates to them, must appear on the labeling. Please notify the Agency by e-mail to crowe.bryant@epa.gov when you actually do forward the revised SLN label(s) to the State(s). When submitting each label to the State, please request the State to forward a copy of the revised SLN label (including their additions, if any) to the Agency for official confirmation of their receipt and approval, since Agency approval of the States notification is required to finalize the action.

If you have questions concerning this letter, please contact Bryant Crowe at 703-305-0025, or myself at 703-308-9443.

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ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP 16 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
400-112

Vitavax®-200 Flowable Fungicide



Vitavax with Thiram

For sale to and use by professional applicators only.
Not for sale to or use by homeowners/consumers.

Net
Contents:

Active Ingredients: (% by weight)

carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide)	17%*
thiram (tetramethylthiuram disulfide)	17%*
Other Ingredients:	66%
Total	100%

*Contains 1.67 pounds of carboxin and 1.67 pounds thiram per U.S. gallon.
*Contains 200 grams of carboxin and 200 grams of thiram per liter.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
IF ON SKIN OR ON CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 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 further treatment advice.
IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue 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 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.
EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
EMERGENCY PHONE	800-292-5898
SAFETY DATA AND INFORMATION	866-430-2775
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

EPA REG. NO. 400-112
EPA EST. NO.
015

Manufactured for:
Chemtura Corporation
199 Benson Road
Middlebury, CT 06749



www.chemtura.com

NOTE TO PHYSICIAN

SYMPTOMS OF POISONING: No specific symptoms. Acute poisoning is accompanied by general depression and illness. Consumption of alcoholic beverages with exposure to Thiram may cause flushing, breathing difficulty, nausea, vomiting and low blood pressure. In case of poisoning, call a physician immediately. Have patient lie down and keep quiet.

No specific antidote is available. Treat symptomatically. In the presence of consumed alcohol, thiram responds similarly to disulfiram.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Causes moderate eye irritation. Avoid contact with eyes or clothing. Consumption of alcoholic beverages increases the toxic effects of thiram.

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 E on an EPA chemical resistance category selection chart.

All Mixers, Loaders, Applicators and Other Handlers Must Wear: long-sleeved shirt and long pants, chemical-resistant gloves (such as barrier laminate or nitrile rubber or neoprene rubber, or viton) *except* when bagging or sewing bags of treated seeds, socks plus shoes, protective eyewear, chemical-resistant aprons when loading, cleaning up spills, cleaning equipment or otherwise exposed to the concentrate.

See Engineering Controls for additional requirements.

NOTE: Any persons involved in bagging treated seed, sewing or moving bags of treated seed, or cleaning up bagging areas or seed treatment equipment are pesticide handlers and must wear the PPE required on this label for pesticide handlers.

For exposures in enclosed areas: A respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R,P, or HE prefilter. *For exposure outdoors:* Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any P,R, or HE filter.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 by WPS.

Engineering Controls:

When handlers use closed systems designed by the manufacturer to enclose the pesticide to prevent it from contacting handlers or other people AND the system is functioning properly and is used and maintained in accordance with the manufacturer's written operating instructions, the handlers need not wear the chemical-resistant apron. However, chemical resistant gloves must be immediately available for use in an emergency, such as a spill or equipment breakdown.

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 chemical is **toxic to fish, aquatic invertebrates, oysters and shrimp.** Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Treated seeds are hazardous to fish, birds and mammals. Do not plant treated seeds by broadcasting to the soil surface. Ensure that all seeds are thoroughly covered with soil, especially in turn areas. If seeds are not thoroughly incorporated by the planting, additional incorporation may be required to thoroughly cover exposed seeds.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons. 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 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 24 hours**.

Exception: Once treated seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area if there will be no contact with the treated seeds.

Early Entry 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, or treated seed is: coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks, protective eyewear

SEED TREATMENT

VITAVAX®-200 Flowable Fungicide is a ready-to-use seed treatment. Application should be made using standard mechanical, slurry or mist-type seed treatment equipment. Uniform application to seed is necessary to insure seed safety and best disease control. Seed should be sound and well cured prior to treatment. With high seed temperatures and when treating at low relative humidity, dilution with clean water will assist in achieving adequate seed coverage. Do not exceed 4 parts water per 1 part product. Dilution of product requires mechanical agitation.

Compatibility: VITAVAX-200 Flowable Fungicide should not be tank mixed with any pesticide or additive unless adequate physical compatibility and phytotoxicity tests have been completed and proved to be satisfactory.

General: VITAVAX-200 Flowable Fungicide combines the systemic action of carboxin with the surface action of thiram to reduce seed rot/seedling blight diseases. It is particularly effective against *Rhizoctonia solani* and shows good activity against various *Helminthosporium*, *Fusarium*, and *Pythium* species. This often results in increased and more uniform stands of seedlings with higher yield potential. Use the higher rate under conditions of expected heavy disease pressure.

BARLEY, WHEAT AND OATS

In addition to the above, loose smut (*Ustilago nuda*), and covered smut (*Ustilago hordei*), are controlled in barley and loose smut (*Ustilago tritici*), and common bunt (*Tilletia caries*) and flag smut (*Urocystis agropyri* or *U. tritici*) are controlled in wheat by VITAVAX-200 Flowable Fungicide.

Use 3 - 4 fluid ounces of VITAVAX-200 Flowable Fungicide per 100 pounds of seed. VITAVAX-200 Flowable Fungicide should be applied as a slurry treatment by machine. Plant barley, wheat and oat seed a minimum of 1 inch deep.

RICE

VITAVAX-200 Flowable Fungicide is particularly effective against *Rhizoctonia solani* and *Helminthosporium oryzae* in rice. Use 3 - 4 fluid ounces VITAVAX-200 Flowable Fungicide per 100 pounds

of seed applied as a slurry treatment by machine. The higher rate is recommended for control of *Helminthosporium oryzae*.

SOYBEANS

Use 2 fluid ounces of VITAVAX-200 Flowable Fungicide per bushel of seed or 4 fluid ounces per 100 pounds of seed. VITAVAX-200 Flowable Fungicide should be applied as a slurry treatment by machine.

COTTON

VITAVAX-200 Flowable Fungicide provides **systemic** control of seed and seedling diseases of cotton. Seed rot, damping off and sore-shin due to *Rhizoctonia solani* are reduced. VITAVAX-200 Flowable Fungicide can be used on both machine and acid delinted cottonseed at the rate of 4.8 fl. oz. per 100 pounds of seed. VITAVAX-200 Flowable Fungicide should be applied as a slurry treatment by machine. Plant treated cotton seed a minimum of 1 inch deep.

USE RESTRICTIONS

Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on treated areas for six weeks after planting. Care must be exercised in the handling of treated seed. Do not graze or feed livestock on vines grown from treated seed.

USE PRECAUTIONS

When using formulations that do not contain dye, to comply with 21 CFR 2.25 and 40 CFR 153.155, treated seed must be colored with an approved dye (40 CFR 180.1001) to distinguish and prevent subsequent and inadvertent use as a food for man or feed for animals.

Treatment of highly mechanically damaged seed or seed of known low vigor and poor quality, except for the purposes of curative control of existing disease of insect pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Chemtura, no claims are made to guarantee germination of carry-over seed.

SEED LABELING

Seed that has been treated with this product that is then packaged or bagged for future use by growers or researchers must contain the following labeling on the outside of the seed package or bag:

Treated Seed - Do Not Use for Food, Feed or Oil Purposes.

This bag contains seed treated with carboxin and thiram (Vitavax® 200 Flowable Fungicide). When opening this bag or loading/pouring the treated seeds, wear long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves.

Do not graze or feed livestock on treated areas for six weeks after planting. Care must be exercised in the handling of treated seed. Do not graze or feed livestock on vines grown from treated seed.

After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. *Exception:* Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the seeds or soil/media subsurface.

Treated seeds are hazardous to fish, birds and mammals. Do not plant treated seeds by broadcasting to the soil surface. Ensure that all planted seeds are thoroughly covered with soil, especially in turn areas. If seeds are not thoroughly

incorporated by the planter during planting, additional incorporation may be required to thoroughly cover exposed seeds. Do not apply to water, 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 or by disposal of wastes. Plant cotton, wheat, barley and oats seed a minimum of 1 inch deep.

IMPORTANT NOTICE

Chemtura Corporation warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and, to the extent consistent with applicable law, the buyer assumes the risk of any such use.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry location. Do not store in direct sunlight. Protect from extreme temperatures.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Plastics & Returnables— Contact Chemtura or your chemical supplier for container return instructions. If container is not returned in accordance with instructions, triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

Metal— Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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