

Vitavax[®]-200

flowable fungicide

Carboxin with Thiram

For on-farm use or commercial application

DO NOT use this product for planter box or hopper box treatment

Active Ingredients:	(% By Weight)
carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide)	17.0%*
thiram (tetramethylthiuram disulfide)	17.0%*
Other Ingredients:	<u>66.0%</u>
Total:	100.0%

* Contains 1.62 pounds of carboxin and 1.62 pounds thiram per gallon.

* Contains 195 grams of carboxin and 195 grams of thiram per liter.

EPA Reg. No. 400-112

EPA Est. No. 089332-GA-002

KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements

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.
<p>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.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL ROCKY MOUNTAIN POISON AND DRUG SAFETY: 1-866-673-6671. FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure, or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.</p>	
<p>For Product Use Information Call 1-800-438-6071</p>	

Manufactured for:
 MacDermid Agricultural Solutions, Inc.
 c/o UPL NA Inc.
 630 Freedom Business Center, Suite 402
 King of Prussia, PA 19406 U.S.A.

Net Contents: 2.5 Gallons

060413V017Sp

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. 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), 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. 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 gloves and apron. However, chemical-resistant gloves and apron 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 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.

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 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 soil/media subsurface.

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.

USE INFORMATION

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.

SEED TREATMENT

VITAVAX-200 Flowable Fungicide is a ready-to-use seed treatment. Make applications using standard mechanical, slurry or mist-type seed treatment equipment. DO NOT use this product for planter box or hopper box treatment. 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: Do not tank mix VITAVAX-200 Flowable Fungicide with any pesticide or additive unless adequate physical compatibility and phytotoxicity tests have been completed and proved to be satisfactory. Follow the more restrictive labeling of any tank mix partners. Do not tank mix with any product that contains a prohibition on tank mixing.

WHEAT, BARLEY AND OATS

VITAVAX-200 Flowable Fungicide controls seed rot and seedling blight (seed-borne *Fusarium* and *Cochliobolus sativa*) and *Pythium* damping-off of wheat, barley, and oats. In addition, VITAVAX-200 Flowable Fungicide controls common bunt (*Tilletia caries*), loose smut (*Ustilago tritici*), and flag smut (*Urocystis agropyri* or *Urocystis tritici*) in wheat, as well as true loose smut (*Ustilago nuda*) and covered smut (*Ustilago hordei*) in barley.

Use 3 - 4 fluid ounces of VITAVAX-200 Flowable Fungicide per 100 pounds of seed. Apply VITAVAX-200 Flowable Fungicide 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. Use the higher rate 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. Apply VITAVAX-200 Flowable Fungicide 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. The maximum application rate for cotton seed is 1.0 oz. a.i./cwt (625 ppm). Apply VITAVAX-200 Flowable Fungicide 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.

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 180.920) 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 UPL NA Inc., no claims are made to guarantee germination of carry-over seed.

TREATED 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. 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.

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."

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Store in a secure location that is cool and dry. Do not store in direct sunlight. Protect from extreme temperatures. Keep container closed when not in use. Do not store near food or feed. Shake or stir well before use.

PESTICIDE DISPOSAL:

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

CONTAINER HANDLING:

Nonrefillable Container

Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer container for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Triple rinse as follows: *For containers with capacities equal to or less than 5 gallons:* Empty the remaining contents into application or a mix tank and drain for 30 seconds after the flow begins to drip. Add water - at least 2% of the container volume, and (if the treating mixture composition permits it) up to 1/4 of the container volume 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. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

For containers with capacities greater than 5 gallons: Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Add water - at least 2% of the container volume, and (if the treating mixture composition permits it) up to 1/4 of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its 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. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

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 refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Add water - at least 2% of the container volume and (if the treating mixture composition permits it) up to 1/4 of the container volume. Replace and tighten closure. Agitate vigorously or recirculate water with the pump for 2 minutes, ensuring that the rinsate rinses the walls of the container. Empty the rinsate into application equipment or rinsate collection system, for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

Recycling: Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or www.acrecycle.org.

IMPORTANT NOTICE

UPL NA Inc. 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.

UPL, the UPL logo and VITAVAX are trademarks of a UPL Corporation Limited Group Company.

©2020 UPL Corporation Limited Group Company