



Notice of Pesticide Reregistration  
Gustafson RTU-Vitavax-Thiram Seed Treatment Protectant Fungicide  
EPA Reg. No. 264-943

2. On front of the label insert “For sale to and use by professional applicators only. Not for sale or use by homeowners/consumers.”

3. Change the **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** section to read:  
“CAUTION: Harmful if swallowed. Avoid contact with skin and clothing.”

4. Change the **PERSONAL PROTECTIVE EQUIPMENT (PPE)** section to read:

“Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

Long-sleeved shirt and long pants

Shoes and socks

Chemical-resistant gloves

Chemical-resistant apron when loading, cleaning up spills, or cleaning equipment.”

NOTE: 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 for this label for pesticide handlers.

5. On page 2 in the Personal Protective Equipment section, delete the “chemical resistant aprons when mixing, loading, or participating in dip treatments” because there are no dip treatments.

5. The text “When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides...as specified in the WPS.” must be placed with the other engineering control statements currently under the **ENGINEERING CONTROL** header.

6. The **ENVIRONMENTAL HAZARD** text on Page 2 of the label must be revised to read:

“This chemical 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 cleaning equipment or disposing of equipment washwaters or rinsate.”

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“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 planter during planting, additional incorporation may be required to thoroughly cover exposed seeds.”

7. Under the heading **SEED LABELING (Commercial Seed)**:

- a. Change the first sentence to read “Seeds that are treated with this product and are then packaged or bagged for future use must contain the following 13 statements on the outside of the seed package or bag.
- b. Delete the extra quotation marks from statements 1 through 10.
- c. Add the following statements:
  11. 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 planter during planting, additional incorporation may be required to thoroughly cover exposed seeds.
  12. Do not apply directly 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.
  13. Plant cotton, wheat, barley and oat seed a minimum of 1 inch deep.”

8. Item 6 on page 3 of the label must be revised to read:

“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 seed 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.”

9. Delete the section “**PHYSICAL OR CHEMICAL HAZARDS** Do not use or store near heat or open flame.”

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10. In the **AGRICULTURAL USE REQUIREMENTS** box,

- a. The REI must be revised to 24 hours.
- b. The early entry PPE must be revised to read:
  - “Coveralls
  - Shoes plus socks
  - Chemical-resistant gloves made of any waterproof material

11. The maximum application rate of 1.0 oz ai (625 ppm or 0.0625 lbs. ai) per 100 pounds of seed must be added to the directions for cotton seed use. Change 11-13.5 fl. oz. to 6.8 fl.oz for cotton seed.

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.

A copy of your label stamped “Accepted with Comments” is enclosed for your records.

If you have any questions, please contact Bryant Crowe by phone at (703) 305-0025 or via email at [crowe.bryant@epa.gov](mailto:crowe.bryant@epa.gov).

Enclosures:

Label stamped “Accepted with comments”

Label review dated July 25, 2008

Acute Toxicity Review DP344702 dated October 5, 2007

Product Chemistry Review DP344701 dated October 24, 2007

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# RTU<sup>®</sup>-VITAVAX<sup>®</sup>-THIRAM

## Seed Protectant Fungicide

Contains petroleum distillate

### ACTIVE INGREDIENTS:

Carboxin: (5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide) ..... 10.0%

Thiram (Tetramethylthiuram disulfide) ..... 10.0%

INERT INGREDIENTS: ..... 80.0%

**TOTAL 100.00%**

EPA Reg. No. 264-943

EPA Est.

## KEEP OUT OF REACH OF CHILDREN CAUTION

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
For **PRODUCT USE** Information Call 1-866-99BAYER (1-866-992-2937)

### FIRST AID

<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**NOTE TO PHYSICIAN:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577.  
Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid inhaling of spray mist. Do not use or store near food or feed. Consumption of alcoholic beverages increases the toxic effects of thiram.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**SEP 26 2008**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.**

264-943

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are (barrier laminate, nitrile rubber or neoprene rubber). If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

### All mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- socks plus shoes
- chemical resistant gloves, except when bagging or sewing bags of treated seeds,
- chemical resistant aprons when mixing, loading, or participating in dip treatments.

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.

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.

## USER SAFETY RECOMMENDATIONS

**Users should:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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.

## 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, the chemical-resistant gloves must be immediately available for use in an emergency, such as a spill or equipment breakdown.

## ENVIRONMENTAL HAZARDS

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. Treated seed exposed on soil surface may be hazardous to birds. Cover or collect spilled seeds

## ENDANGERED SPECIES

This bag contains seed treated with carboxin. 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.

## 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.**

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.

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## 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 agriculture 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 12 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 soil subsurface.

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, socks and chemical resistant gloves made of any waterproof material.

### SEED LABELING (Commercial Seed)

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

1. "This seed treated with Carboxin and Thiram. Do not use treated seed for food, feed, or oil purposes." Add appropriate information for any other chemical treatments.
2. Store away from feeds and foodstuffs.
3. When opening this bag or loading/pouring the treated seed, wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves.
4. Treated seed exposed on soil surface may be hazardous to birds. Cover or collect spilled seeds.
5. This bag contains seed treated with carboxin. 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.
6. After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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 soil subsurface.
7. "Planting Note: Seed treated with this product does not flow as freely as untreated seed. The drill should therefore be adjusted to compensate for this restricted seed flow to prevent lower than desired seeding rates."
8. Augers used for handling treated seed should not be used to move grain for food, feed or oil processing."
9. "Do not reuse bags from treated seed to handle food or feed products."
10. Do not graze or feed livestock on vines grown from treated seed. Dry Beans: Do not allow livestock to graze or feed on bean forage until 60 days after treated seed is planted.

### DIRECTIONS FOR USE

RTU-VITAVAX-THIRAM Seed Protectant Fungicide is a ready-to-use seed treatment. Apply as a commercial seed treatment or as a pour-on hopper-box application. This product does not require the addition of water for application.

RTU-VITAVAX-THIRAM Fungicide combines the systemic action of carboxin with the surface action of thiram to control various seed and seedling 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.

### USE RESTRICTIONS

Do not use treated seed for food or feed 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.

Barley, Wheat, Oats and Triticale: Do not graze or feed livestock on treated areas for six weeks after planting.

Soybeans: Do not graze or feed livestock on forage and hay on treated areas.

Dry Beans: Do not allow livestock to graze or feed on bean forage until 60 days after treated seed is planted.

### COMPATIBILITY

RTU-VITAVAX-THIRAM Fungicide should not be tank mixed with any pesticide unless adequate physical compatibility and phytotoxicity tests have been completed and proved to be satisfactory.

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## DIRECTIONS FOR USE AS A HOPPER-BOX SEED TREATMENT

Mix well before use: Apply RTU-VITAVAX-THIRAM Fungicide directly to seed in hopper box. Partially fill hopper box with a premeasured amount of seed. Apply the proper amount of RTU-VITAVAX-THIRAM Fungicide evenly over the surface of the seed. Mix with a stick or paddle until a uniform color is imparted to all seed. Repeat procedure until hopper box is filled.

### Barley, Wheat, Oats and Triticale:

In addition, loose smut (*Ustilago nuda*), covered smut (*Ustilago hordei*), and flag smut (*Urocystis agropyri*) are controlled on barley and loose smut (*Ustilago tritici*), common bunt (*Tilletia caries*), and flag smut (*Urocystis agropyri*) are controlled on wheat by RTU-VITAVAX-THIRAM Fungicide.

Use 5 to 6.8 fl. oz. of RTU-VITAVAX-THIRAM Fungicide per 100 lbs. of seed. The higher rate is recommended where smuts and bunt are severe.

Do not graze or feed livestock on treated areas for six weeks after planting.

### Dry Beans, Soybeans:

RTU-VITAVAX-THIRAM provides suppression of seedborne *Sclerotinia* and *Phomopsis* seed decay, seed and seedling disease caused by *Fusarium* and *Pythium* and protection against damping-off caused by *Rhizoctonia solani*.

Use 4.0 fl.oz. of RTU-VITAVAX-THIRAM Fungicide per bushel of seed or 6.8 fl. oz. per 100 lbs. of seed.

On soybeans, do not graze or feed livestock on forage and hay on treated areas. On dry beans, do not allow livestock to graze or feed on bean forage until 60 days after treated seed is planted.

### Cotton:

RTU-VITAVAX-THIRAM Fungicide provides systemic control of seed and seedling diseases of cotton. Seed rot, damping-off and soreshin due to *Rhizoctonia solani* are reduced. RTU-VITAVAX-THIRAM Fungicide can be used on both machine and acid-delinted cottonseed at the rate of 11 to 13.5 fl.oz. per 100 lbs. of seed.

### Rice:

Use 5 to 6.8 fl.oz. of RTU-VITAVAX-THIRAM Fungicide per 100 lbs. of seed. The higher rate is recommended for control of *Helminthosporium oryzae*.

## DIRECTIONS FOR USE AS A COMMERCIAL SEED TREATMENT

Application should be made using standard mechanical, slurry or mist-type seed treatment equipment. Uniform application is necessary to insure seed safety and best disease control. Seed should be sound and well cured prior to treatment

### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE

Do not store near heat or open flame.

#### 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

Contact Bayer CropScience 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 incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, disclaimer of Warranties and Limitations of Liability.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, 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 Bayer CropScience, no claims are made to guarantee germination of carry-over seed.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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#### NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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PRODUCED FOR



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