

Gustafson  
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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

AUG 9 1989

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

# RTU® -VITAVAX®-THIRAM

## SEED PROTECTANT FUNGICIDE

### 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 .....	100.0%

This product contains the toxic inert ingredient Rhodamine B.

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Immediately flush eyes with plenty of water. See a physician.

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** See a physician if an abnormal reaction occurs.

**IF ON SKIN:** Wash thoroughly with soap and warm water.

**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.

**NOTE TO PHYSICIAN:** No specific antidote is available. Treat symptomatically. In the presence of consumed alcohol, thiram responds similarly to Disulfiram.

**SEE ADDITIONAL PRECAUTIONARY STATEMENTS.**

During commercial exposure in seed treatment and loading operations, wear goggles, clean rubber gloves, protective clothing, and a pesticide respirator jointly approved by the Mine Safety and Health Administration (formerly the U.S. Bureau of Mines) and the National Institute of Occupational Safety and Health under provisions of 30 CFR, Part 11. Wash hands, arms and face thoroughly with soap and water after handling and before eating or smoking. Routinely shower or bathe after work; wash all clothing with soap and water before reusing. Consumption of alcoholic beverages increase the toxic effects of thiram.

### ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish. Do not contaminate water when disposing of equipment washwaters. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water.

### 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.

### STORAGE AND DISPOSAL

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

**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:** 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.

EPA Reg. No. 7501-114

EPA Est.: 7501-ID-1

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid inhaling of spray mist. Do not use or store near food or feed.

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## 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.

### RECOMMENDATIONS 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.

### RECOMMENDATIONS 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 pre-measured 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*), and covered smut (*Ustilago hordei*), are controlled on barley and loose smut (*Ustilago tritici*), and common bunt (*Tilletia caries*) are controlled on wheat by RTU-VITAVAX-THIRAM Fungicide.

Use 5 to 6.8 fluid ounces of RTU-VITAVAX-THIRAM Fungicide per 100 pounds 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

Use 3.4 fluid ounces of RTU-VITAVAX-THIRAM Fungicide per bushel of seed or 6.8 fluid ounces per 100 pounds 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 sore-shin 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 pounds of seed.

#### RICE

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

#### 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.

## 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.

### SEED LABELING (Commercial Seed)

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. "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."
3. "Augers used for handling treated seed should not be used to move grain for food, feed or oil processing."
4. "Do not reuse bags from treated seed to handle food or feed products."

### NOTICE--READ CAREFULLY LIMITED WARRANTY STATEMENT

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 or 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 Gustafson, Inc., no claims are made to guaranteed germination of carry-over seed.

Gustafson warrants that this product conforms to the chemical description on the label and is reasonably fit for purposes stated on the label only when used in accordance with directions and instructions specified on the label. Gustafson neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or MERCHANTABILITY, guarantee or representation, expressed or implied, concerning this material. In the event of any breach of this limited warranty, Gustafson shall not be liable for consequential damages.

A quality product manufactured by:  
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114(S)-985022