

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 7501-114	DATE OF ISSUANCE MAY 31 1988
	TERM OF ISSUANCE Conditional	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
NAME OF PESTICIDE PRODUCT Gustafson RTI-VITAVAX-THIRAI Seed Protectant Fungicide		

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Gustafson, Inc.  
 P.O. Box 660065  
 Dallas, TX 75266-0065

ASG  
 217110 161 / 18  
 267900 161 / 39

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase, "EPA Registration No. 7501-114".
  - b. In the ingredient statement, change the chemical name for the active ingredient carboxin to read as follows:  
  
 Carboxin (5,6-Dihydro-2-methyl-1,4-oxathiin-3-carboxanilide)
  - c. Under Environmental Hazards, change "Do not contaminate water by cleaning of equipment or disposal of wastes" to "Do not contaminate water when disposing of equipment washwaters".

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_

- d. In the directions for use for dry beans and soybeans, add the following restrictions:

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.

- e. In the directions for use on barley, wheat, oats and triticale, add "Do not graze or feed livestock on treated areas for six weeks after planting".

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the labeling is enclosed for your records.

Sincerely,

*LR*

Lois A. Rossi  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosure

Draft Labeling: 3/1/88

**\*GUSTAFSON (logo)  
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%

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Total: .....100.0%

EPA Reg. No. 7501- Net Contents: \_\_\_\_\_ Gallons  
EPA Est.

This product contains the toxic inert ingredient Rhodamine B.

**KEEP OUT OF REACH OF CHILDREN  
C A U T I O N  
STATEMENT OF PRACTICAL TREATMENT**

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

IF SWALLOWED: Call a physical 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 water.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT.

VITAVAX is a Reg. Trademark of Uniroyal Chemical, Inc. Gustafson (logo) and RTU are TM's of Gustafson, Inc.

Gustafson, Inc.  
1400 Preston Road, Suite 400  
Plano, Texas 75075

**ACCEPTED**  
 COMMENTS  
 EPA Letter Dated:  
**MAY 31 1988**  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7501-114

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
C A U T I O N**

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.

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 by 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 increases the toxic effects of thiram.

**ENVIRONMENTAL HAZARDS**

This pesticide product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. 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.

**DIRECTIONS FOR USE**

RTU-VITAVAX-THIRAM Seed Protectant Fungicide is a ready-to-use seed treatment. Apply with commercial seed treating equipment such as a slurry treater. This product does not require the addition of water for application. Use the higher rate under conditions of expected heavy disease pressure.

**RECOMMENDATIONS**

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.

**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. RTU-VITAVAX-THIRAM Fungicide should be applied as a slurry treatment by machine. The higher rate is recommended where smuts and bunt are severe.

**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. Apply as a slurry treatment by machine.

**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 prevented. 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. RTU-VITAVAX-THIRAM Fungicide should be applied as a slurry treatment by machine.

**RICE**

Use 5 to 6.8 fluid ounces of RTU-VITAVAX-THIRAM Fungicide per 100 pounds of seed applied as a slurry treatment by machine. 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**

"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.

**NOTICE - READ CAREFULLY**

Treatment of highly mechanically damaged seed or seed of known low vigor and poor quality, except for the purposes of curative control of damping 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.