



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OCT 13 2000

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dr. Dennis McFadden
Gustafson LLC
1400 Preston Road, Suite 400
Plano, TX 75093

SUBJECT: Gustafson Vitavax-PCNB Flowable Fungicide
EPA Reg. No. 7501-87
Your Letter and Application Dated July 7, 2000

Dear Dr. McFadden:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the following comments on each version of the label:

Comments Applicable to all three labels (Commercial Only, On-Farm Cotton Only, and Master Label)

The Precautionary Statements heading should appear immediately above the contents and should not be separated into two boxes.

Under Environmental Hazards, second sentence, delete the phrase "For terrestrial uses.". This product only has terrestrial uses, therefore, this phrase is not necessary.

Under Environmental Hazards, delete the last sentence.

Comments Applicable to On-Farm Cotton Only Label

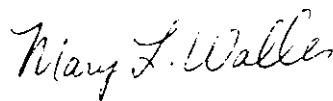
Under PPE for early-entry, revise waterproof gloves to read chemical-resistant gloves.

Comments Applicable to Master Label

Under PPE for early-entry, revise waterproof gloves to read chemical-resistant gloves.

Stamped copies are enclosed for the specified versions of the label. Please submit one (1) copy of each version of your final printed labeling before you release the product for shipment. If you have any questions, please contact Summer Gardner-Jenkins of my staff at (703) 308-9353.

Sincerely,



Mary L. Waller
Product Manager21
Fungicide Branch
Registration Division (7505C)

Enclosure

Gustafson VITAVAX®-PCNB Flowable Fungicide

**ACCEPTED
with COMMENTS
In EPA Letter Dated
OCT 13 2000**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
7501-87**

ACTIVE INGREDIENTS:

- Carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide) 17%
- Pentachloronitrobenzene (PCNB) 17%
- INERT INGREDIENTS:** 66%

100%

Contains 1.68 lbs. carboxin and 1.68 lbs. PCNB per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If swallowed:

- 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 a poison control center or doctor.
- Do not give anything to an unconscious person.

If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15 - 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.
- See additional precautionary statements.

EPA Reg. No. 7501-87 EPA Est.
NET CONTENTS:

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS &
DOMESTIC ANIMALS
CAUTION**

(Continued Next Column)

Harmful if swallowed, inhaled or absorbed through the skin. May cause irritation of nose, throat, eyes and skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or spray mist. During mixing/loading procedures, wear respirator, gloves, long-sleeved shirt, long pants, socks and shoes. Wash hands and face thoroughly with soap and water after use or before eating or smoking. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate treated seeds. Do not contaminate water or wetlands by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on agricultural establishments in hopper-box, planter-box, slurry-box, or other seed treatment applications at or immediately before planting.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal or by cleaning of equipment. Open dumping is prohibited.

STORAGE: Store in a cool, dry location. Do not store in direct hot sunlight. Keep container closed when not in 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 DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state or local authorities.



Gustafson Vitavax-PCNB Flowable Fungicide is a ready-to-use seed treatment.

Gustafson Vitavax-PCNB Flowable Fungicide combines the systemic action of carboxin with the surface action of PCNB to control various seed and seedling diseases. It is particularly effective against *Rhizoctonia solani*.

BARLEY, WHEAT AND OATS

Use 3-4 fluid ounces of **Gustafson Vitavax-PCNB Flowable Fungicide** per 100 pounds of seed. **Gustafson Vitavax-PCNB Flowable Fungicide** should be applied as a slurry treatment by machine. Use the higher rate under conditions of expected heavy disease pressure.

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 **Gustafson Vitavax-PCNB Flowable Fungicide**.

COTTON

Use 5 to 7 fluid ounces of **Gustafson Vitavax-PCNB Flowable Fungicide** per 100 pounds of seed as a slurry treatment by machine. Use the higher rate under conditions of expected heavy disease pressure.

SOYBEANS

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

USE RESTRICTIONS

Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on treated areas of wheat, barley or oats for six weeks after planting. Do not graze or feed livestock on forage or hay grown from treated cotton or soybean seed. Care must be exercised in the handling of treated seed.

Since this product does not contain a dye, all seed treated with this product must be colored with an EPA-approved dye (e.g., 40 CFR 180.1001) which imparts an unnatural color to the seed to help prevent the inadvertent use of treated seed as food for man or feed for animals.

COMPATIBILITY

Gustafson Vitavax-PCNB Flowable Fungicide should not be tank mixed with any pesticide unless adequate physical and compatibility and phytotoxicity tests have been completed and proved to be satisfactory.

SEED LABELING—"This seed treated with **Gustafson Vitavax-PCNB Flowable Fungicide**. Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on treated areas of wheat, barley or oats for six weeks after planting. Do not graze or feed livestock on forage or hay grown from treated cotton or soybeans." Add appropriate information for any other chemical treatment.

**NOTICE - READ CAREFULLY
CONDITIONS OF SALE AND LIMITED WARRANTY
STATEMENT**

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 Gustafson LLC, no claims are made to guarantee germination of carry-over seed.

As its sole express warranty, Gustafson LLC warrants that this product conforms to the chemical description on the label and

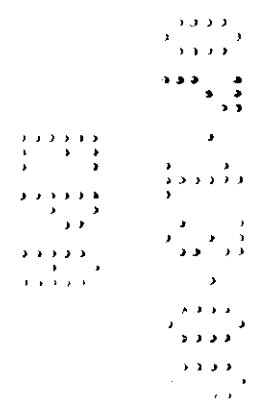
is reasonably fit for purposes stated on the label only when used in accordance with directions and instructions specified on the label, subject to the inherent risks set forth above. ONLY AS PERMITTED BY APPLICABLE LAW, IN THE EVENT OF A BREACH OF THIS LIMITED WARRANTY, GUSTAFSON LLC SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. SUBJECT TO APPLICABLE LAW, GUSTAFSON LLC NEITHER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FITNESS OR MERCHANTABILITY, GUARANTY OR REPRESENTATION, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL. Buyer assumes the responsibility to handle, use and store this product in accordance with the safety instructions and use directions contained on the label.

Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, may be varied only by a written agreement signed by a duly authorized representative of Gustafson LLC. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

A quality product manufactured by:
Gustafson LLC
1400 Preston Road, Suite 400
Plano, Texas 75093
Questions? (972) 985-8877

Gustafson (logo) is a Reg. TM of Gustafson LLC
VITAVAX is a Reg. TM of UNIROYAL CHEMICAL COMPANY, INC.

87(S)-005070



Gustafson VITAVAX®-PCNB Flowable Fungicide

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

OCT 13 2000

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
7501-87**

ACTIVE INGREDIENTS:

Carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide)	17%
Pentachloronitrobenzene (PCNB)	17%
INERT INGREDIENTS:	66%
	100%

Contains 1.68 lbs. carboxin and 1.68 lbs. PCNB per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN

**CAUTION
FIRST AID**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If swallowed:

- 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 a poison control center or doctor.
- Do not give anything to an unconscious person.

If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15 - 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.

(See additional precautionary statements.)

EPA Reg. No. 7501-87 EPA Est.
NET CONTENTS:

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

Continued next column

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. May cause irritation of nose, throat, eyes and skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or spray mist.

PERSONAL PROTECTIVE EQUIPMENT:

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart. Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene or polyvinyl chloride or Viton, shoes plus socks, and dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate treated seeds. Do not contaminate water or wetlands by cleaning of equipment or disposal of wastes.

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.



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 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: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. 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, such as plants, soil, or water is: coveralls, waterproof gloves and shoes plus socks.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal or by cleaning of equipment. Open dumping is prohibited.

STORAGE: Store in a cool, dry location. Do not store in direct hot sunlight. Keep container closed when not in 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 DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state or local authorities.

For use in commercial seed treaters only, with the exception of application to cotton seed, which may be made either by commercial seed treatment or as an end-use seed treatment on agricultural establishments at, or immediately before, planting. This product is to be used in liquid or slurry treatments.

Gustafson Vitavax-PCNB Flowable Fungicide is a ready-to-use seed treatment.

Gustafson Vitavax-PCNB Flowable Fungicide combines the systemic action of carboxin with the surface action of PCNB to control various seed and seedling diseases. It is particularly effective against *Rhizoctonia solani*.

BARLEY, WHEAT AND OATS

Use 3 - 4 fluid ounces of **Gustafson Vitavax-PCNB Flowable Fungicide** per 100 pounds of seed. **Gustafson Vitavax-PCNB Flowable Fungicide** should be applied as a slurry treatment by machine. Use the higher rate under conditions of expected heavy disease pressure.

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 **Gustafson Vitavax-PCNB Flowable Fungicide**.

COTTON

Use 5 to 7 fluid ounces of **Gustafson Vitavax-PCNB Flowable Fungicide** per 100 pounds of seed as a slurry treatment by machine. Use the higher rate under conditions of expected heavy disease pressure.

COTTON: FOR END-USE APPLICATION AT AGRICULTURAL ESTABLISHMENTS

Gustafson Vitavax-PCNB may be applied as an overtreatment to cottonseed for additional systemic and contact *Rhizoctonia* protection. Apply **Gustafson Vitavax-PCNB** using a mechanical type applicator such as a batch type treater, TCIF A.S.T. System or Gustafson TST Total Slurry Treater. Apply at the rate of 3.5 fl. oz. per 50 lb. bag of cottonseed. **Gustafson Vitavax-PCNB** is recommended to be used in conjunction with a co-fungicide such as Gustafson ALLEGIANCE™-FL for systemic *Pythium* activity. Product dilution with water may be needed to achieve good cottonseed coverage.

SOYBEANS

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

USE RESTRICTIONS

Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on treated areas of wheat, barley or oats for six weeks after planting. Do not graze or feed livestock on forage or hay grown from treated cotton or soybean seed. Care must be exercised in the handling of treated seed.

Since this product does not contain a dye, all seed commercially treated with this product must be colored with an EPA-approved dye (e.g., 40 CFR 180.1001) which imparts an unnatural color to the seed to help prevent the inadvertent use of treated seed as food for man or feed for animals.

COMPATIBILITY

Gustafson Vitavax-PCNB Flowable Fungicide should not be tank mixed with any pesticide unless adequate physical and compatibility and phytotoxicity tests have been completed and proved to be satisfactory.

SEED LABELING (Commercially Treated Seed)—"This seed treated with **Gustafson Vitavax-PCNB Flowable Fungicide**. Do not use treated seed for food, feed or oil purposes. Do not graze or feed livestock on treated areas of wheat, barley or oats for six weeks after planting. Do not graze or feed livestock on forage or hay grown from treated cotton or soybean seed." Add appropriate information for any other chemical treatment.

**NOTICE - READ CAREFULLY
CONDITIONS OF SALE AND LIMITED WARRANTY
STATEMENT**

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As its sole express warranty, Gustafson LLC 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, subject to the inherent risks set forth above. ONLY AS PERMITTED BY APPLICABLE LAW, IN THE EVENT OF A BREACH OF THIS LIMITED WARRANTY, GUSTAFSON, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. SUBJECT TO APPLICABLE LAW, GUSTAFSON, INC. NEITHER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FITNESS OR MERCHANTABILITY, GUARANTY OR REPRESENTATION, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL. Buyer assumes the responsibility to handle, use and store this product

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act
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Gustafson VITAVAX®-PCNB

Flowable Fungicide

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- Do not give anything to an unconscious person.

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- Take off contaminated clothing.
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If in eyes:

- Hold open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
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See additional precautionary statements.

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Continued Next Column

CAUTION

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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: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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COTTON: FOR END-USE APPLICATION AT AGRICULTURAL ESTABLISHMENTS

Gustafson Vitavax-PCNB may be applied as an overtreatment to cottonseed for additional systemic and contact *Rhizoctonia* protection. Apply Gustafson Vitavax-PCNB using a mechanical type applicator such as a batch type treater, TCI F.A.S.T. System or Gustafson TST Total Slurry Treater. Apply at the rate of 3.5 fl. oz. per 50 lb. bag of cottonseed. Gustafson Vitavax-PCNB is recommended to be used in conjunction with a co-fungicide such as Gustafson ALLEGIANCE-FL for systemic *Pythium* activity. Product dilution with water may be needed to achieve good cottonseed coverage.

USE RESTRICTIONS

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Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, may be varied only by a written agreement signed by a duly authorized representative of Gustafson LLC. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

A quality product manufactured by:
Gustafson LLC
1400 Preston Road, Suite 400
Plano, Texas 75093
Questions? (972) 985-8877

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VITAVAX is a Reg. TM of UNIROYAL CHEMICAL COMPANY, INC.

