

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
7501-133

DATE OF ISSUANCE
7-18-91

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Gustafson Vitaflo - 280
Flowable Fungicide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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

8395132 / 161
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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 indorsement 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 section 3(c)(7)(A) provided that you:

1. Submit/cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(7) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit one (1) copy of your final printed labeling before your release the product for shipment.
3. Add "EPA Registration No. 7501-133" to the label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(a). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Susan T. Lewis

Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure
ATTACHMENT IS APPLICABLE

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SIGNATURE OF APPROVING OFFICIAL

Susan Lewis

DATE
7-18-91

Draft Labeling: 11/02/89

ACCEPTED
with COMMENTS
in EPA Letter Dated:

Gustafson (Logo)®
VITAFLO®-280
FLOWABLE FUNGICIDE

JUL 18 1991

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

Active Ingredients: Carboxin (5,6-dihydro-2-methyl-N ⁷⁵⁰¹⁻¹³³
-phenyl-1,4-oxathiin-3-carboxamide)...14.9%
Thiram (tetramethylthiuram disulfide)...13.2%

Inert Ingredients:71.9% ✓

Total:100.0% ✓

EPA Reg. No. 7501-
EPA Est.

Net Contents: _____ Gallons

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 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

VITAFLO is a Registered Trademark of UNIROYAL CHEMICAL COMPANY, INC.

Gustafson (Logo) is a Reg. TM of Gustafson, Inc.

Gustafson, Inc.
1400 Preston Road, Suite 400
Plano, Texas 75093

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**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. Consumption of alcoholic beverages increases the toxic effects of thiram. 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 provision of 30 CFR, Part II. 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.

ENVIRONMENTAL HAZARDS

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

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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STORAGE AND DISPOSAL

Do not store VITAFLO-260 in direct sunlight. Do not store VITAFLO-280 at temperatures above 95 F. 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 residue 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.

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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

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

VITAFLO-280 is a combination of a systemic fungicide (VITAVAX) and a contact fungicide (thiram) to control seed and soil-borne seedling diseases including damping-off and seed decay. In addition, VITAFLO-280 controls the following cereal grain diseases:

- Barley: Covered smut (*Ustilago hordei*), true loose smut (*U. nuda*) suppression of net blotch (*Helminthosporium teres*)
- Wheat: Loose smut (*U. tritica*), common bunt (*Tilletia caries*)
- Oats: Loose smut (*U. Kolleria*), covered smut (*U. avenae*)

VITAFLO-280 has no vapor action. Thorough seed coverage is required. Use the higher rate under conditions of heavy expected disease pressure.

VITAFLO-280 can be diluted with water for use in slurry treaters. Dilute VITAFLO-280 as required to apply the specified rate of undiluted VITAFLO-280. Keep in constant agitation and use within 24 hours of diluting.

Treater calibration should be rechecked if the VITAFLO-280 temperature falls below -4 F. Undiluted VITAFLO-280 can be used at temperatures down to -22 F.

Centrifugal pumps are not recommended for pumping VITAFLO-280.

**TREATMENT RATE FOR
UNDILUTED
VITAFLO-280**

CROP	fl. oz. per cwt seed
Barley, Wheat	3.5 - 5
(The 3.5 fl. oz. rate will give partial control of true loose smut in wheat and barley. Use the 5 fl. oz. rate for control of true loose smut).	
Oats	5
Triticale	3
Corn (field & sweet)	4.5
Soybeans, Beans	4.0

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CORN HEAD SMUT:

For control of seed-borne head smut (*Sphacelotheca reiliana*). Treat corn at 8.5 - 11.5 fl. oz. of UNDILUTED VITAFLO-280 per cwt of seed.

GENERAL NOTE: Avoid planting corn under cold, wet conditions. Stress conditions during the first few weeks after planting may increase the incidence of head smut. Will not control soil-borne head smut.

USE RESTRICTIONS:

1. VITAFLO-280 will not freeze solid even in extreme winter temperatures.
2. For cleaning lines and reservoirs flush with water. Rinse water should be used for dilutions of VITAFLO-280.
3. Seeding rate should be checked during planting.
4. Stir well before using.
5. Prior to each use, stir contents for approximately 2 minutes with the internal hand operated agitator.
6. Do not use treated seed for food, feed or oil purposes.
7. 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.

USE PRECAUTION

When using formulations that do not contain dye, to comply with 21 CFR Chapter 1, Section 2.25 all grain seed treated with an economic poison must be colored with an approved dye (40 CFR 180.1001) to distinguish and prevent subsequent and inadvertent use as a food for man or feed for animals.

COMPATIBILITY

VITAFLO-280 Flowable 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 thirax (VITAFLO-280 Flowable Fungicide) at the manufacturer's recommended rate. 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 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

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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.

