

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 21 7501-133

1043

SEP 28 1995

Mr. Dennis L. McFadden
Gustafson, Inc.
P. O. Box 660065
Dallas, TX 75266 0065

Dear Mr. McFadden:

Subject: Gustafson Vitaflo 280 flowable Fungicide
EPA Registration No. 7501-133
Your Application Dated June 29, 1995

The Agency has reviewed the proposed labeling and found it to be acceptable provided you make the following changes:

1. In the Statement of Practical Treatment there is a typographical error under "If Swallowed", change "physical" to physician.
2. Under "Seed Labeling", add "Do not graze or feed livestock on treated area for six weeks after planting grain crops. Do not graze or feed livestock on vines grown from treated bean or soybean seed."

A stamped copy of the labeling is enclosed for your records. Submit five(5) copies of the final printed labeling. If you have any questions regarding this matter, please feel free to contact me or Sidney Jackson of my staff at 703/305-7610.

Sincerely yours,

Connie B. Welch
Product Manager, Team 21
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES

| | | | | | | | | |
|-----------|--------------|--|--|--|--|--|--|--|
| SYMBOL ▶ | 7505C | | | | | | | |
| SURNAME ▶ | S. Jackson | | | | | | | |
| DATE ▶ | Sep 26, 1995 | | | | | | | |

ACCEPTED
with COMMENTS
in EPA Letter Dated
SEP 28 1995

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

7501-133

VITAFLO™-280

Flowable Fungicide

Active Ingredients:

| | |
|---|--------|
| Carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin -3-carboxamide) | 14.9% |
| Thiram (Tetramethylthiuram disulfide) | 13.2% |
| Inert Ingredients: | 71.9% |
| Total: | 100.0% |

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 Additional Precautionary Statements.

EPA Reg. No. 7501-133

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. 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 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.

ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish. 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. 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.

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

Do not store VITAFLO-280 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 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.

VITAFLO-280 is a combination of a systemic fungicide (VITAVAX®) and a contact fungicide (Thiram) to control seed and soilborne 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 re-checked 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.

Gustafson



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TREATMENT RATE FOR UNDILUTED VITAFLO-280

CROP

| | fl. oz. per cwt seed |
|---|-------------------------|
| Barley, Wheat | 3.5 - 5.0 |
| (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 | 5.0 |
| Triticale | 3.0 |
| Corn (field & sweet) | 4.5 |
| Soybeans, Beans | 4.0 |

CORN HEAD SMUT: For control of seedborne 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 thiram (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

CONDITIONS OF SALE AND 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 guarantee germination of carry-over seed.

As its sole express warranty, Gustafson, Inc. 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 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, Inc. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

VITAFLO is a TM of UNIROYAL CHEMICAL COMPANY, INC. GUSTAFSON (logo) is a Reg. TM of Gustafson, Inc.

A quality product manufactured By:
Gustafson, Inc.
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 Plano, Texas 75093
 (214) 985-8877

133(S)-298070