



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H/7505C)
101 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number

7501-147

Date of Issuance

MAY 26 1994

Term of Issuance

Conditional

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Name of Pesticide Product:

Gus 376 Concentrate
Biological Fungicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following labeling change before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 7501-147".
 - b. Add the strain identification number "MBI 600" following the name of the organism in the ingredient statement.
3. Submit five copies of the final printed label for the record.

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 constitutes acceptance of these conditions.

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

Signature of Approving Official

Carl S. Noble for Steve Robbins, Acting PMZ

Date

MAY 26 1994

Gus 376

Concentrate

Biological Fungicide

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 26 1994

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

7501-147

FOR FORMULATING INTO REGISTERED END-USE PRODUCTS
AND FOR USE AS A SEED TREATMENT

ACTIVE INGREDIENT:

Bacillus subtilis (not less than 5.5×10^{10} viable spores
per gram) 2.75%

INERT INGREDIENTS: 97.25%

EPA Reg. No. 7501-_____

EPA Est. _____

Net Contents: _____

KEEP OUT OF REACH OF CHILDREN CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes skin irritation. Avoid contact with eyes, skin or clothing. In case of contact, flush affected area with plenty of water. Repeated or prolonged excessive exposure may lead to sensitization of skin and lungs in susceptible individuals. When applying or handling concentrate or in the absence of adequate ventilation, wear a paper dust mask which covers at least one-third of the face. Wash face, hands and arms thoroughly with soap and water after handling and before eating or smoking.

Statement of Practical Treatment

If on skin, wash with soap and water. Get medical attention if irritation persists.

If in eyes, flush with water. Get medical attention if irritation persists.

Environmental Hazards

For Reformulating Use: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public water unless this product is specifically identified and addressed in a NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance, contact your State Water Board or Regional Office of the EPA.

For Seed Treatment Use: 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 washwater or rinsate. Cover or incorporate spilled seed or seed on soil surface.

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. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE: Store in a dry place.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty package by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mixing equipment. Then dispose of package in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of box in the same manner. Do not reuse package or box.

Gus 376 Concentrate contains bacteria which colonize the developing root system, suppressing disease organisms such as *Fusarium*, *Rhizoctonia*, *Alternaria* and *Aspergillus* that attack root systems. When used with a chemical seed treatment, the combination of chemicals and Gus 376 provides protection to the root for a much longer time than with chemicals alone. As the root system develops, the bacteria grow with the roots extending the protection throughout the growing season. As a result of this biological protection, a vigorous root system is established by the plant, which often results in more uniform stands and greater yields.

In addition, Gus 376 has been shown to increase the amount of nodulation by nitrogen-fixing bacteria when used on many legumes. This improvement in nodulation is a result of a healthier root system allowing more sites for nodules to form from naturally-occurring soilborne nitrogen-fixing bacteria.

FOR REFORMULATION INTO REGISTERED END-USE PRODUCTS

USE PATTERN: This product is for use for formulators in the manufacture of agricultural fungicide products, offered for sale to the public, and which are duly registered with the Environmental Protection Agency, Washington, D.C.

FORMULATION ASSISTANCE: Additional information regarding specific problems in formulations, involving this product may be obtained by writing: Gustafson, Inc., P. O. Box 660065, Dallas, Texas 75266-0065.

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FOR USE AS A SEED TREATMENT

Gus 376 Concentrate may be applied as a water based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment. To mix, first add the chemical insecticides and/or fungicides to the slurry mix with approximately 1/2 of the required water. Slowly add the Gus 376 Concentrate to the slurry until an uniform suspension is obtained. Add the remainder of the required water and maintain continuous agitation. Do not store mixed slurries for longer than 72 hours.

APPLICATION RATES:

May be used in combination with other registered Gustafson Flowable seed treatment fungicides and insecticides. Pre-test for compatibility with other seed treatment products.

COTTON: For suppression of *Rhizoctonia* and *Fusarium* seedling diseases and *Fusarium wilt*, apply 0.25 - 1.0 ounces per 100 lbs. of seed.

SEED AND POD VEGETABLES (such as) green beans, snap beans, lima beans, kidney beans, navy beans, pinto beans, wax beans, pole beans, garden peas, peas and field beans: For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, apply 0.25 - 1.0 ounces per 100 lbs. of seed. For improvement of nodulation by *Rhizobium* in fields where appropriate strains are detectable, apply at 0.25-0.5 ounces per 100 lbs. of seed.

PEANUTS: For suppression of root diseases caused by *Rhizoctonia*, *Fusarium* and *Aspergillus* and for improvement of nodulation by *Rhizobium*, apply at 0.25-0.5 ounces per 100 lbs. of seed as a dry blend with other registered seed treatment fungicides.

SOYBEANS: For suppression of root diseases caused by *Rhizoctonia* and *Fusarium* and for improvement of nodulation by *Bradyrhizobium*, apply at 0.25-0.5 ounces per 100 lbs. of seed.

WHEAT AND BARLEY: For suppression of root diseases caused by *Rhizoctonia* and *Fusarium*, apply 0.05 - 0.25 ounces per 100 lbs. of seed.

CORN (Field and Sweet): For suppression of root diseases caused by *Fusarium* and *Pythium*, apply 0.25 - 1.0 ounces per 100 lbs.

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 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.

Gustafson, Inc. and the seller offer this product, and the Buyer/ User accept it, subject to the foregoing Conditions of Sale and Limited Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Gustafson, Inc. If these terms are not acceptable, return all products, at once, unopened.

Another quality product from:

Gustafson, Inc.

1400 Preston Road, Suite 400

Plano, TX 75093

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