

OCT 08 1996

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

Dear Mr. McFadden:

Subject: Gustafson Thiram Technical  
EPA Registration No 7501-20  
Application Dated September 25, 1996, Request To  
Add New Sites of Use: Seeds of Canola, Chicory, and  
Ornamental Flowers and To Add a Formulating Use  
Section To Label

Your application to amend the subject registration of  
Gustafson Thiram Technical has been reviewed and is acceptable  
under the Federal Insecticide, Fungicide and Rodenticide Act  
(FIFRA) as amended, provided that you:

1. Rearrange the "Directions of Use" section of the label  
under the headings: "Formulating Uses" and "End Uses".  
The listing of use-sites that may be claimed for "Formulat-  
ing Uses" must not include pests controlled, as presently  
shown. Under the heading "End Uses", the pests and  
dosimetry as listed are appropriate.
2. In the Environmental Hazard statements correct the  
typographic error by leaving a space between the  
words "permitting authority"; and correct the spelling  
of the word "permitting".
3. Submit two (2) copies of the final printed label before  
releasing the product for shipment under revised  
labeling.

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

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

Sincerely yours,

**BEST AVAILABLE COPY**

E. Wilson: Diskette ABC18:10-680065				Joanne I. Miller			
Enclosure				Product Manager (23)			
				Fungicide-Herbicide Branch			
				Registration Division (7505C)			
SYMBOL							
SURNAME							
DATE							

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

OCT 08 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
7501-20

# Gustafson Thiram Technical

## Agricultural Fungicide

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

### ACTIVE INGREDIENT:

Thiram (Tetramethylthiuram disulfide) .....97.5%  
INERT INGREDIENTS .....2.5%  
TOTAL .....100%

EPA Reg. No. 7501-20

EPA Est. No.

### NET CONTENTS:

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS KEEP OUT OF REACH OF CHILDREN CAUTION

Causes eye and skin irritation. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid inhaling of spray mist or dust. Do not use or store near food or feed. This product may cause allergic reactions. 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.

### STATEMENT OF PRACTICAL TREATMENT

In case of contact, wash skin with plenty of soap and water; for eyes, flush with water for 15 minutes and get medical attention. In case of swallowing, apply stomach drain (by doctor only), or induce vomiting.

### ENVIRONMENTAL HAZARD

This pesticide product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System

*Continued Next Column*

(NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### DIRECTIONS FOR USE

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

### STORAGE AND DISPOSAL

**STORAGE:** Store in a cool, dry place. Do not allow to freeze or become overheated.

**PROHIBITIONS:** 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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### REFORMULATION:

**USE PATTERN:** This product is for formulators in the manufacture of agricultural seed treatment fungicidal products, offered for sale to the public, and which are duly registered for seed treatment use only 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.

### SEED TREATMENT:

Directions for Use as a Seed Treatment for Control of Damping-Off, Seed Decay, Seedling Blights, Oat Smut, Onion Smut, Loose and Covered Smuts of Sorghum. Apply at recommended dosage, use suitable slurry seed treatment equipment. Do not use treated seed for food, feed or oil.

# Gustafson



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SEED	DISEASE	RATE
Beans, Lima.....	*seed decay, damping-off, seedling blight.....	1.8 oz. / 100 lbs.
Beans, String.....	seed decay, damping-off, seedling blight.....	1.0 oz. / 100 lbs.
Beans, Snap.....	seed decay, damping-off, seedling blight.....	1.8 oz. / 100 lbs.
Corn, Field.....	seed decay, damping-off, seedling blight.....	1.5 oz. / 100 lbs.
Corn, Sweet.....	seed decay, damping-off, seedling blight.....	4.0 oz. / 100 lbs.
Cottonseed (Acid Delinted).....	seed decay, damping-off, seedling blight.....	3.0 oz. / 100 lbs.
Cowpeas.....	seed decay, damping-off, seedling blight.....	1.0 oz. / 100 lbs.
Millet.....	seed decay, damping-off, seedling blight.....	2.0 oz. / 100 lbs.
Okra.....	seed decay, damping-off, seedling blight.....	3.0 oz. / 100 lbs.
Peanuts (Shelled).....	seed decay, damping-off, seedling blight.....	2.4 oz. / 100 lbs.
Peanuts (Unshelled).....	seed decay, damping-off, seedling blight.....	1.6 oz. / 100 lbs.
Peas.....	seed decay, damping-off, seedling blight.....	1.8 oz. / 100 lbs.
Rice.....	seed decay, damping-off, seedling blight.....	3.3 oz. / 100 lbs.
Rye.....	seed decay, damping-off, seedling blight, **covered smuts or bunts.....	1.84 oz. / 100 lbs.
Sesame.....	seed decay, damping-off, seedling blight.....	1.5 oz. / 100 lbs.
Safflower.....	seed decay, damping-off, seedling blight.....	2.0 oz. / 100 lbs.
Sorghum.....	seed decay, damping-off, seedling blight, loose and covered smuts.....	1.8 oz. / 100 lbs.
Soybeans.....	seed decay, damping-off, seedling blight.....	1.8 oz. / 100 lbs.
Spinach.....	seed decay, damping-off, seedling blight.....	4.0 oz. / 100 lbs.
Tomatoes.....	seed decay, damping-off, seedling blight.....	3.0 oz. / 100 lbs.
Turnips.....	seed decay, damping-off, seedling blight.....	4.0 oz. / 100 lbs.
Wheat.....	seed decay, damping-off, seedling blight, covered smuts or bunt.....	1.66 oz. / 100 lbs.

Only for formulation into a seed treatment fungicide, for the use sites listed above and the following use sites:

SEED	DISEASE
Barley.....	seed decay, damping-off, seedling blight, covered smuts or bunt
Beans, Dry.....	seed decay, damping-off, seedling blight
Beets (Garden).....	seed decay, damping-off, seedling blight
Broccoli.....	seed decay, damping-off, seedling blight
Brussels Sprouts.....	seed decay, damping-off, seedling blight
Cabbage.....	seed decay, damping-off, seedling blight
Canola.....	seed decay, damping-off, seedling blight
Cantaloupe.....	seed decay, damping-off, seedling blight
Carrots.....	seed decay, damping-off, seedling blight
Castor beans.....	seed decay, damping-off, seedling blight
Cauliflower.....	seed decay, damping-off, seedling blight
Chicory.....	seed decay, damping-off, seedling blight
Collards.....	seed decay, damping-off, seedling blight
Coniferous seed.....	seed decay, damping-off, seedling blight
Cotton - reginned and fuzzy.....	seed decay, damping-off, seedling blight
Cucumber.....	seed decay, damping-off, seedling blight
Eggplant.....	seed decay, damping-off, seedling blight
Endive.....	seed decay, damping-off, seedling blight
Flax.....	seed decay, damping-off, seedling blight
Gladiolus bulbs.....	***basal rot and decay
Grasses.....	seed decay, damping-off, seedling blight
Kale.....	seed decay, damping-off, seedling blight
Kohlrabi.....	seed decay, damping-off, seedling blight
Lettuce.....	seed decay, damping-off, seedling blight
Mustard.....	seed decay, damping-off, seedling blight
Oats.....	seed decay, damping-off, seedling blight
Onion.....	seed decay, damping-off, seedling blight, onion smut ( <i>Urocystis sp</i> )
Ornamental bulbs and tubers.....	basal rot and decay
Ornamental flower seeds.....	seed decay, damping-off, seedling blight
Ornamental foliage plant seeds in the families Araliacea (scheffleras), Aracea (philodendrons), and Palmacea (palms).....	seed decay, damping-off, seedling blight
Peppers.....	seed decay, damping-off, seedling blight
Pumpkin.....	seed decay, damping-off, seedling blight
Radish.....	seed decay, damping-off, seedling blight
Small seed legumes.....	seed decay, damping-off, seedling blight
Squash.....	seed decay, damping-off, seedling blight
Sugar beets.....	seed decay, damping-off, seedling blight
Sunflower.....	seed decay, damping-off, seedling blight
Swish Chard.....	seed decay, damping-off, seedling blight
Triticale.....	seed decay, damping-off, seedling blight
Watermelon.....	seed decay, damping-off, seedling blight

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\* Seed decay, damping-off, seedling blights are caused by an array of fungal plant pathogens from the genera: *Pythium* sps., *Fusarium* sps., *Rhizopus* sp., *Penicillium* sps., *Aspergillus* sps., *Cladosporium* sps., *Alternaria* sps., *Helminthosporium* sps., and others.

\*\*Covered smuts or bunts refers to those various fungi found in the genera *Ustilago* sps., *Sporisorium* sp. (sorghum), *Tilletia* sps.

\*\*\* Basal rot and decay are caused by *Fusarium* sps., *Pythium* sps., *Rhizopus* sps., *Penicillium* sps., *Cladosporium* sps., *Aspergillus* sps., *Botrytis* sps., *Curvularia* sps. and others.

**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, 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.

A quality product manufactured by:  
**Gustafson, Inc.**  
1400 Preston Road, Suite 400  
Plano, Texas 75093  
(214) 985-8877

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