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7501-105

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Mr. Dennis L. McFadden
Gustafson, Inc.
P.O. Box 660665
Dallas, TX 75266 0665

Dear Mr. McFadden:

Subject: Gustafson Thiram 50 WP
EPA Registration No. 7501-105
Application Dated September 27, 1995, Request To
Add Use-Patterns for Ornamental Flower Seed and
Canola Seed, and statement on Use of Film Coatings

The proposed added use-patterns for treatment of ornamental flower seeds and canola seeds have been reviewed and found unacceptable for registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended. The statements on film coating operations are acceptable partial acceptable. The labeling submitted will be acceptable provided that you:

1. Delete the claims for use on canola and ornamental flower seeds. These use sites do not appear on the labeling of the manufacturing use products from which this product is derived.
2. Delete the statement "Contact Gustafson for specific information" from the film-coating operations statements.
3. Submit one (1) copy of the final printed label reflecting the revisions indicated in 1 and 2 above before releasing the product for shipment.

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 constitutes acceptance of these conditions.

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

Sincerely yours,

BEST AVAILABLE COPY

Joanne I. Miller
Product Manager (23)

CONCURRENCES Fungicide-herbicide granule

SYMBOL					Registration Division (7505C)		
SURNAME	Enclosure						
DATE	E. Wilson:	Diskette	ABC12:	10-13-95			

2074

Gustafson Thiram 50WP Dyed

ACCEPTED
with COMMENTS
In EPA Letter Dated

OCT 13 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
7501-105

ACTIVE INGREDIENT:	BY WT.
Thiram (Tetramethylthiuram disulfide)	50%
INERT INGREDIENTS	50%
	100%

This product contains the toxic inert ingredient Rhodamine B.

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit is clear. Call a Physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.

IF ON SKIN: Wash the affected area with soap and warm water.

IF IN EYES: Immediately flush eyes with running water for at least 15 minutes. Call a Physician.

See additional precautionary statements.

EPA Reg. No. 7501-105

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS 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. Consumption of alcoholic beverages increases the toxic effects of thiram.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Mixers and loaders must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Mixers and loaders must wear for exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with prefilter approved for pesticides (MSHA/

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NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). Mixers and loaders must wear, for exposures outdoors, dust/mist respirator (MSHA/NIOSH approval number prefix TC-21C).

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.

ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish, birds and wildlife. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds by burial away from bodies of water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed
by storage or disposal.
Open dumping is prohibited.
Do not reuse empty container.

STORAGE: Store in a cool, dry place in an area designated for pesticides, and away from food or feed. Keep pesticide in original container. Keep container firmly 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: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles.

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same manner.

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 assistances. 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 product 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 and protective eyewear.

GENERAL INFORMATION

This product is recommended for the treatment of listed seeds and bulbs and, when used as directed, will usually increase stands and yields by reducing loss from seed decay, damping-off, and seedling blights. It also will usually control the loose and covered kernel smuts of sorghum and will usually prevent basal rot and decay of gladiolus bulbs. Gustafson Thiram 50WP aids in the control of *Alternaria* and *Phoma* on canola.

DIRECTIONS FOR USE

This product may be applied as a dry treatment or may be mixed into the required amount of water to form a slurry treatment.

(Rotary Drum or Small Container)—Fill unit not more than 1/2 full; add correct amount of Thiram; rotate slowly until product is evenly distributed on all seed.

(Planter or Drill Box)—Place 1/2 the total amount of seed and Thiram in box and mix with paddle or stick. Add remaining 1/2 of seed and Thiram and stir as specified above.

Treat peanuts promptly after shelling. Other seeds may be treated anytime after being well-cured.

For film-coating operations—Gustafson Thiram 50 WP has demonstrated good to excellent compatibility with most commercial film coating products. Coating procedures identified by the polymer/coating companies and film-coating equipment manufacturers should be followed when preparing coating preparations containing Gustafson Thiram 50 WP. Contact Gustafson for specific information.

distinct labeling that instructs: **CAUTION:** Treated with thiram. Wear rubber gloves and protective clothing when handling products treated with thiram. Direct exposure to skin may result in severe dermatitis.

IMPORTANT:

Treated seed must not be used for or mixed with food or animal feed or processed for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time. Seed commercially treated with this product must be labeled in accord with all applicable requirements of the Federal Seed Act. Labels attached to treated seed must state "Treated seed, must not be used for or mixed with food or animal feed, or processed for oil." and "Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water."

SEED TREATMENT DOSAGE RATES

Type of Seed	Ounces per 100 pounds
Barley	4.1
Beans (Snap & Dry)	2.0
Beans (Lima)	3.0
Beets (Garden & Sugar)	8.0
Canola.....	6.4
Cantaloupe, Cucumber, Pumpkin, Squash, Watermelon	4.5
Castor Beans	4.5
Corn (Field & Sweet)	3.0
Cotton	4.5
Cowpeas	2.0
Eggplant	6.0
Flax	5.3
Grasses	8.0
Legumes (Small seeded)	8.0
Millet	4.0
Okra	6.0
Peanuts (Shelled)	4.5
Peas	3.0
Rice.....	4.3
Rye.....	3.7
Safflower.....	4.0
Sesame	3.0
Sorghum	2.7
Soybeans.....	3.3
Sugar Beets	8.0
Tomato	6.0
Wheat.....	3.3
Broccoli, Brussels Sprouts, Carrots, Cabbage, Cauliflower, Collards, Endive, Kale, Kohlrabi, Lettuce, Mustard, Peppers, Radish, Spinach, Swiss Chard, Turnip.....	All 8.0
Ornamental foliage plants in the families Araliacea (scheffleras), Aracea (philodendrons), and Palmacea (palms).....	All 8.0
Ornamental flower seed.....	All 8.0

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**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 descriptions 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 for:
Gustafson, Inc.
1400 Preston Road, Suite 400
Plano, Texas 75093
(214) 985-8877

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105(S)596290