

11-JUL-2003

06-SEP-2005 Notification received of a label change. See below for this change.

GROUP M FUNGICIDE

GUSTAFSON

42-S

THIRAM FUNGICIDE

For control of verticillium wilt on alfalfa.  
For control of certain diseases of canola.  
For treatment of mustard seed that is destined for export only.

AGRICULTURAL

DANGER



POISON

READ THE LABEL BEFORE USING

GUARANTEE: Thiram...42%

REGISTRATION NO: 16420  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 18.92 Litres

**SPECIAL USE RESTRICTIONS:**

This product contains no colourant. All seed must be conspicuously coloured at the time of treatment. Regulations pertaining to colouration of treated seed enforced by the importing country must be strictly adhered to when using this product on seed destined for export.

**DISTRIBUTOR:**  
Gustafson Partnership  
10-2712-37<sup>th</sup> Ave NE  
Calgary, AB T1Y 5L3

**A QUALITY PRODUCT MANUFACTURED BY:**  
~~Gustafson LLC~~  
~~1400 Preston Rd., Suite 400~~  
~~Plano, TX 75093 USA~~  
**BAYER CROPSCIENCE INC. □**  
**3131 114TH AVE. S.E., SUITE 100 □**  
**CALGARY AB T2Z 3X2**

Notification Change

24 HOUR EMERGENCY PHONE: (613) 996-6666  
GROWER INFORMATION: 1-800-880-9481

## DIRECTIONS FOR USE:

FOR PROTECTION OF SEEDS AND EMERGING SEEDLINGS ONLY.

### ALFALFA

For control of Verticillium Wilt of alfalfa, dilute Gustafson 42-S Thiram Fungicide with water and apply to seed according to the chart below.

### RATE OF APPLICATION:

1. Dilute 1 part Gustafson 42-S Thiram Fungicide with 1 part water.
  2. Add 1 450g bottle GUSTAFSON BLUE/RED Seed Treatment Dye per 35-55 L of total slurry mixture.
  3. Apply at 1.1 litres per 100 kilograms of seed.
- OR
1. Dilute 1 part Gustafson 42-S Thiram Fungicide with 2 parts water.
  2. Add 1 450g bottle GUSTAFSON BLUE/RED Seed Treatment Dye per 35-55 litres of total slurry mixture.
  3. Apply at 1.6 litres per 100 kilograms of seed.

GUSTAFSON 42-S THIRAM FUNGICIDE SHOULD BE THOROUGHLY MIXED BEFORE APPLICATION AND AFTER DILUTION, SHOULD BE AGITATED DURING APPLICATION.

Gustafson 42-S Thiram Fungicide should be applied to alfalfa seed in a commercial liquid or slurry type seed treater approved for this purpose or in a cement mixer or similar on-farm treating device.

Thorough coverage of seed is required. All seeds must be conspicuously coloured at the time of treatment.

#### CANOLA and MUSTARD (Export)

Gustafson 42-S Thiram Fungicide may be applied to canola and mustard seed that is destined for export. Apply 417 mL per 100kg of canola seed or 520 mL per 100kg of mustard seed or consult with the importer to establish what rates of Gustafson 42-S Thiram Fungicide are used on canola and mustard in their country for controlling specific diseases. Used according to directions, Gustafson 42-S Thiram Fungicide will usually increase stands and yields by reducing losses from seed decay, damping-off and seedling blights caused by many seedborne and soilborne organisms. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to colouration of treated seed enforced by the importing country must be strictly adhered to when using this product on seed destined for export.

#### CANOLA (Canada)

Apply 326 mL per 100kg of seed for control of seedborne blackleg. A blue colourant must be added when this product is applied to oil seed.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Gustafson 42-S Thiram Fungicide contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to Gustafson 42-S Thiram Fungicide and other Group M fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Gustafson 42-S Thiram Fungicide or other Group M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Gustafson Partnership at 1-800-880-9481 or at [www.gustafson.ca](http://www.gustafson.ca).

**PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.**

Store in a cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire and sparks. May irritate eyes, nose, throat and skin. May cause allergic eczema in sensitive individuals. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling and before eating, drinking or smoking. Wash contaminated clothing with soap and hot water before re-use. Do not consume alcoholic beverages immediately before or within 24 hours after working with thiram. Avoid breathing vapors. When treating, augering or handling treated seed, work in a well ventilated area, and wear a suitable dust mask, goggles and gloves. Do not contaminate food or feed. Treated seed may be harmful to birds if ingested. Do not contaminate any body of water.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on the acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

**FIRST AID:**

**IF SWALLOWED:** Contact a physician or poison control centre IMMEDIATELY. Give patient one to two glasses of water and cause vomiting by giving one dose of syrup of ipecac. If the patient does not vomit within 20 minutes, give a second dose. If syrup of ipecac is not available, give the patient one to two glasses of water and cause vomiting by inserting finger down the throat. Repeat with water until vomit fluid is clear. The patient should be lying down with the head below the level of the feet. **DO NOT TRY TO CAUSE VOMITING IF THE PATIENT IS UNCONSCIOUS OR IN A CONVULSIVE STATE.**

**IF IN EYES:** Flush with water for 15 minutes. Contact a physician or poison control centre.

**IF ON SKIN:** Remove contaminated clothing and wash skin thoroughly with soap and water.

**IF INHALED:** Remove victim to fresh air. Administer CPR if not breathing. Contact a physician or poison control centre IMMEDIATELY if irritation develops.

Take container, label, or product name and Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Avoid alcohol. In the presence of alcohol, Thiram responds similarly to disulfiram. There is no specific antidote. Treat patient symptomatically.

#### LIMITATION:

Label treated seed 'DO NOT USE FOR FOOD OR FEED. THIS SEED HAS BEEN TREATED WITH THIRAM.'

All bags containing treated seed destined for export must be labelled or tagged as follows: "FOR EXPORT ONLY. THIS SEED HAS BEEN TREATED WITH GUSTAFSON 42-S THIRAM FUNGICIDE SEED PROTECTANT WHICH CONTAINS THIRAM. DO NOT USE FOR FEED, FOOD, OR OIL PROCESSING. STORE AWAY FROM FEEDS AND OTHER FOODSTUFFS."

DO NOT STORE TREATED SEED MORE THAN SIX MONTHS.

#### STORAGE AND DISPOSAL:

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed.

#### **DISPOSAL:**

Do not use this container for any other purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

#### NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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