

pm 14 7501-14 1000 1993

Gustafson

42-S

THIRAM FUNGICIDE

ACCEPTED

MAR 29 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7501-14

ACTIVE INGREDIENT:

Thiram: Tetramethylthiuram disulfide 42%

INERT INGREDIENTS: 58%

Contains 4 pounds thiram per gallon.

U.S. Pat. 4,372,080

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Give one or two glasses of water and induce vomiting by touching finger to back of throat. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF IN EYES: Flush with plenty of water. Get medical attention.

IF INHALED: Remove victim to fresh air.

IF ON SKIN: Remove contaminated clothing and wash affected area with soap and water. Launder clothing before reusing.

See additional precautionary statements

EPA Reg. No. 7501-14

EPA Est. _____

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. Wear goggles or face shield and rubber gloves when handling. Avoid inhaling of spray mist or dust. Do not use or store near food or feed.

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.

Continued Next Column

Consumption of alcoholic beverages increases the toxic effects of thiram.

ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish. 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 wetlands.

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.

1. **STORAGE**—Store in a cool place. Keep container tightly closed to prevent evaporation. Stir before using. DO NOT SUBJECT TO TEMPERATURES BELOW 32°F.
2. **PROHIBITIONS**—Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.
3. **PESTICIDE DISPOSAL**—Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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 Hazardous Waste representative at the nearest EPA Regional Office for guidance.
4. **CONTAINER DISPOSAL**—Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR CONIFEROUS SEED

Damping-off Protection: Use 2 quarts of GUSTAFSON 42-S Thiram per 100 lbs. of seed. Slowly add to the seed while turning in a tumbler such as a concrete mixer. Tumble seed for approximately 2 minutes and then spread coated seed on a screen to dry.

BEST AVAILABLE COPY

DIRECTIONS FOR USE AS A SEED TREATMENT

Gustafson 42-S Thiram Fungicide is a liquid organic fungicide recommended for the treatment of seeds listed in the following table. Used according to directions, Gustafson 42-S Thiram will usually increase stands and yields by reducing losses from seed decay, damping-off and seedling blights caused by many seedborne and soilborne organisms. Gustafson 42-S Thiram will usually control covered smuts or bunt of wheat, barley and rye and covered kernel smut of sorghum and will usually prevent basal rot and decay of gladiolus bulbs.

For Slurry-Type Treater: Gustafson 42-S Thiram should be applied with water as a suspension in the slurry-type treater specifically designed and approved for this purpose. Use by mixing at the concentration (pts. per gallon of water) and cup size shown in following table for each type of seed. If it is desirable to prepare slurries in large containers for addition to the slurry tank, entire contents should be thoroughly agitated before withdrawing any of the slurry.

SEEDS	Gustafson 42-S		Slurry** cc/cwt Seed	Slurry Cup CC	Lbs Dump Weight
	Treating Rate *Fl. Oz. Per Bu. or 100 Lbs.	Con. Pts./Gal.			
Barley	2/bu.	9-1/5	230	23	10
Beans (Lima) and Peas	3/100 lbs.	5	230	23	10
Beans (Snap & Dry, Soybeans, Cowpeas)	2/100 lbs.	2-3/4	230	23	10
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard, Turnip	6/100 lbs.	6	547	46	8.4
Beet (Garden), Swiss Chard	8/100 lbs.	6-1/2	520	46	8.8
Cantaloupe, Cucumber, Pumpkin, Squash, Watermelon	4-1/2/100 lbs.	9-1/2	245	23	9.4
Carrot, Endive, Lettuce, Pepper, Radish, Spinach	6/100 lbs.	5	612	46	7.5
Corn (Field)	1-1/2/bu.	4-1/4	230	23	10
Corn (Sweet)	5/100 lbs.	3-1/4	463	46	9.5
Eggplant	6-1/2/100 lbs.	3-3/4	312	46	7.5
Cotton—acid-delinted	4-1/2/100 lbs.	11	230	23	10
Cotton—reginned and fuzzy	4-1/2/100 lbs.	3-1/4	460	46	10
Flax	3/bu.	9-4/5	268	23	8
Grasses	6/100 lbs.	5-1/2	575	46	8
Onion	6/100 lbs.	4-1/2	463	46	9.5
Rice	1-1/2/bu.	8	230	23	10
Rye	2/bu.	6-4/5	230	23	10
Safflower	2/bu.	8-1/2	230	23	10
Small seed legumes	6/100 lbs.	6-3/4	510	46	8
Sorghum and Millet	2/bu.	2-1/2	463	46	9.5
Tomato	6/100 lbs.	4-3/4	520	46	8.8
Wheat	2/bu.	6	230	23	10

*1 Fl. Oz. equivalent to 29.5 ml (cc) and 1/2 ounce thiram.

**For Mist-O-Matic and other treaters equipped to apply slurries, adjust slurry cups and dump weights to apply the amount of slurry shown.

Gladiolus Bulbs: Treat any time after drying. Dip bulbs in a suspension made by mixing 1-1/2 pts. of Gustafson 42-S Thiram in 8 gals. of water. Agitate the suspension. If bulbs are to be stored, spread out to dry. Gladiolus bulbs that are treated with this product must bear 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.

For The Treatment of Rice Seed in California

Gustafson 42-S Thiram Fungicide is a liquid organic fungicide recommended for the treatment of rice seed in California. Used according to directions, Gustafson 42-S Thiram will usually increase stands and yields by reducing losses from seed decay, damping-off and seedling blights caused by seedborne and soilborne organisms.

DIRECTIONS

Gustafson 42-S Thiram is recommended for use on well cured rice seed in California prior to pre-plant soaking. Gustafson 42-S Thiram should be used with water as a suspension in treaters suitable for adequate mixing and accurate application to the seed. If it is desirable to prepare slurries in large containers for addition to treater tanks, entire contents should be thoroughly agitated before withdrawing any of the slurry for seed treatment.

How To Use: Rice seed treatment in California.

SLURRY TREATERS:

Treater Tank Concentration	Application Rate	Slurry Bucket	Seed Gate	Dump Weight
Mix 1 gallon of Gustafson 42-S with 1 gallon of water.	4 oz. per 100 lbs. seed.	23	18	10

MIST-O-MATIC TREATER:

Treater Tank Concentration	Application Rate	Cup Size	Dump Weight
Mix 1 gallon of Gustafson 42-S with 1 gallon of water.	4 oz. per 100 lbs. seed.	15cc	6.5 lbs.

Note: To prevent water contamination in irrigation or drainage canals soak water should be retained in settling basins.

Do not use treated seed for food or feed.

For The Treatment of Peanut Seed

Gustafson 42-S Thiram Fungicide when used in a two-way combination with Gustafson BOTRAN 30-C as detailed in the PRO-IZED® SYSTEM II will protect peanut seed and seedlings against seed rots caused by *Aspergillus spp.* and *Rhizopus spp.* and various other seed and soilborne diseases, including damping-off, seed decay organisms and seedling blights. When used in a three-way combination with Gustafson BOTRAN 30-C and Vitavax-30C as detailed in the PRO-IZED SYSTEM III, additional protection from *Rhizoctonia solani* is achieved.

TOTAL FLUID OUNCES OF SLURRY PER HUNDRED POUNDS (cwt) OF PEANUT SEED AND PROPER MIX RATIO ARE EXTREMELY IMPORTANT. DO NOT DEVIATE FROM THE USAGE AND RATIO SHOWN BELOW.

DO NOT SUBSTITUTE OR ADD ANY OTHER PRODUCTS TO THE SLURRY MIX. DO NOT ADD WATER.

PRO-IZED SYSTEM II GUSTAFSON BOTRAN 30-C plus GUSTAFSON 42-S THIRAM FUNGICIDE

	Gustafson BOTRAN 30-C	Gustafson 42-S Thiram Fungicide	Gustafson Peanut Seed Binder	Total Slurry/cwt
Peanuts—	3 fl. ozs.	+ 3 fl. ozs.	+ 9 fl. ozs.	15 fl. ozs.

PRO-IZED SYSTEM III
GUSTAFSON BOTRAN 30-C plus
GUSTAFSON 42-S THIRAM FUNGICIDE
plus VITAVAX® -30C

	Gustafson BOTRAN 30-C	Gustafson 42-S Thiram Fungicide	Vitavax 30C	Gustafson Peanut Seed Binder	Total Slurry/cwt.
Peanuts—	3 fl. ozs.	+ 3 fl. ozs.	+ 3 fl. ozs.	+ 6 fl. ozs.	15 fl. ozs.

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 to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.

ABEL TREATED SEED— "This seed treated with thiram fungicide (Gustafson 42-S Thiram). Do not use for food, feed or oil purposes."

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.

Gustafson, Inc. warrants that this product conforms to the agent 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. **SUBJECT TO ANY APPLICABLE STATE LAW, GUSTAFSON, INC. NEITHER MAKES, NOR AUTHORIZES ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, EXPRESS OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL GUSTAFSON, INC. BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT; BUYER SHALL RECEIVE AS ITS SOLE REMEDY A RETURN OF THE PURCHASE PRICE PAID.** Buyer assumes all responsibility for safety and use not in accordance with label instructions.

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 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.

A quality product manufactured by:
Gustafson, Inc.
 1400 Preston Road, Suite 400
 Plano, Texas 75093
 (214) 965-8877

Gustafson (logo) and Pro-ized are Reg. TM's of Gustafson, Inc.
 VITAVAX is a Reg. TM of Unkroyal Chemical Company, Inc.

Net Contents: ____ Gallons

14(S)-299010

