*UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division

Dennis L. McFadden GUSTAFSON, INC. BOX 660065 DALLAS TX 75266

Comment for: EPA Reg Nr.7501-14
GUSTAFSON 42-S THIRAM FUNGICIDE AND REPELLENT

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

The circled and asterisked statement(s) in the Non-Agricultural Use Requirements box does not belong. Delete the sentence(s) from the Non-Agricultural Use Requirements box and place it where it appeared in your original labeling. If there are no remaining requirements in the box after you delete the sentence(s), delete the entire Non-Agricultural Use Requirements box.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

Gustafson 42-S Thiram

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

Fungicide

ACTIVE INGREDIENT:	
Thiram (Tetramethylthiuram disulfide)	42%
INERT INGREDIENTS:	
Contains 4 pounds thiram per gallon.	

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 U.S. Pat. 4,372,080

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:

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Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistant category selection chart. Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, chemical-resistant gloves, such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and shoes plus socks and protective eyewear. Mixers and loaders must wear: long-sleeved shirt and long

Continued Next Column

pants, chemical-resistant gloves, such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and 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/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. Remove clothing immediately if pseticide gets inside. Then wash thoroughly and put on clean clothing.

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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

- 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 rinsate is a violation of Federal Law. If these wastes cannot Confined Next Column



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. CONTAÎNER 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 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, chemical-resistant gloves, such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and shoes plus socks and protective evewear.

DIRECTIONS FOR CONIFEROUS SEED

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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.

DIRECTIONS FOR 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 woth thiram. Direct exposure to skin may result in severe dermatitis.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

RECOMMENDATIONS FOR USE
AS A COMMERCIAL 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.

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.

<u> </u>	Gustafson	42S			
	Treating Flate		Sturry		Lbs.
	*Fl.Oz. Per	Con	oc/owt	Siciny	Dump
SEEDS	Bu. or 100 Lbs.	Ps/Gal.	Seed	Cuo CC	Weight
Berley	2bu	9-1/5	230	23	10
Beans (Lime) and Pees	3/100lbs.	5	239	23	10
Beens (Shap & Dry, Soybeens, Cowpees)	2/100 lbs.	23/4	230	23	10
Broccoli, Brussels Sprouts, Cebbege, Ceuillower, Collerds, Kele, Kohlrabi, Musterd, Turnip	8/1001bs	6	547	46	8.4
Beet (Gerden), Swiss Chard	8/100 lbs.	6-1/2	520	46	8.8
Centeloupe, Cucumber, Pumpkin, Squesh, Watermelon	4-1/2/100 lbs.	91/2	245	23	94
Cerrot, Endive, Lettuce, Pepper, Radich, Spirech	8/100/lbs.	5	612	46	75
Com (Field)	1-1/2/bu	4-1/4	230	23	10
Corn (Sweet)	5/100 lbs.	3-1/4	483	46	95
Eggplent	6-1/2/100 lbs	33/4	612	46	7.5
Cotton-acid-delinted	41/2/100 bs.	11	230	23	10
Cotton-reginned and fuzzy	41/2/100 1%	3-1/4	460	46	10
Flex	J tou	94ø	288	23	8
Graeses	3/100 lbs.	5-1/2	575	46	8
Chion	6/100 lbs.	41/2	483	46	9.5
Plice	1-1/2/bu	6	230	23	10
Rye	2/bu	64/5	230	23	10
Sallover	2/bu	8-1/2	230	23	10
Small seed legumes	8/100 lbs.	63/4	510	46	9
Sorghum and Millet	2/bu	2-1/2	463	46	9.5
Tometo	6/100 lbs.	43/4	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 slurres, adjust slurry cups and dump weights to apply the amount of slurry shown.

For The Treatment of Rice Seed In California

Gustafson 42-S Thiram Fungicide and Repellent 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 inducing losses from seed decay, damping-off and seedling blights caused by seedborne and soil-borne 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	Application	Slurry	Seed	Dump
Concentration	Rate	Bucket	Gate	Welght
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	Application	Cup	Dump
Concentration	Rate	Size	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 and Repellent when used in a two-way combination with Gustafson Botran®-30C as detailed in the PRO-IZED® SYSTEM II will protect peanut seed and seedlings against seed rots caused by Asperigillus 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-30C 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 DOSAGE 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-30C plus
GUSTAFSON 42-S THIRAM FUNGICIDE & REPELLENT

	Gustafson Botran-30C	Gustafson 42-S Thiram Fungicide & Repellent	Gustafson Peanut Seed Binder	Total Slurry/cwt.
Despute	2 11 070	4.241.074	+ Off are	15 (1 070

PRO-IZED SYSTEM III

GUSTAFSON BOTRAN-30C plus GUSTAFSON 42-S THIRAM FUNGICIDE & REPELLENT plus VITAVAX® -30C

	Gustafson	Gustafson		
	42-S Thiram		Peanut	
Gustatson	Fungicide	Vitavax	Seed	Total
Botran-30C	Repellent	30C	Binder	Sturry/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.

LABEL 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 sædling 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. NEI-THER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FIT-NESS OR MEHCHANTABILITY, GUARANTY OR REPRESEN-TATION, EXPRESS OR IMPLIED, CONCERNING THIS MATE-RIAL. 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

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

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

APR . 6 1994

Dennis L. McFadden GUSTAFSON, INC. P. O. Box 660065 Dallas, TX 75266 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 02/18/94 in Response to PR Notice 93-7

EPA Reg. No. 7501-14

GUSTAFSON 42-S THIRAM FUNGICIDE AND REPELLENT

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

ACCEPTED
with COMMENTS
in EPA Letter Dated

Gustafson 42-S Thiram

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Rog. No.

Fungicide

ACTIVE INGREDIENT:	
Thiram (Tetramethylthiuram disulfide)	42%
INERT INGREDIENTS:	
Contains 4 pounds thiram per gallon.	

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

U.S. Pat. 4,372,080

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:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistant category selection chart. Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long parts, chemical-resistant gloves, such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and shoes plus socks and protective eyewear. Mixers and loaders must wear: long-sleeved shirt and long

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pants, chemical-resistant gloves, such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and 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 prefitter approved for pesticides (MSHA/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. Remove clothing immediately if pseticide gets inside. Then wash thoroughly and put on clean clothing.

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. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

- STORAGE

 Store in a cool place. Keep container tightly closed to prevent evaporation. Stir before using. DO NOT SUBJECT TO TEMPERATURES BELOW 32°F.
- PROHIBITIONS—Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.
- 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 continued that Column

BEST AVAILABLE COPY

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 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 cartain 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, chemical-resistant gloves such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and Viton, and shoes plus socks and protective eyewear.

DIRECTIONS FOR CONIFEROUS SEED

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

DIRECTIONS FOR 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. /-yltate 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 woth thiram. Direct exposure to skin may result in severe dermatitis.

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

RECOMMENDATIONS FOR USE

AS A COMMERCIAL 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.

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.

	Gustafson	428			
	Treating Rate		Skery		Lbs.
l	*FLOz Per	Con.	oclowi	Sluny	Dump
SEEDS	Bu. or 100 Lbs.	Pa./Gal.	Seed	Cup CC	Weight.
Belly .	2/bu	91/5	230	23	10
Beens (Lime) and Peas	3/100lbs	5	230	23	10
Beens (Snep & Dry, Soybeens, Cowpees)	2/100 lbs.	234	230	28	10
Broccoli, Brunnels Sprouts, Cathbage, Catallower, Collards, Kele, Kohinabi, Musterd, Turnio	8/100 lbs.	6	547	46	84
Bost (Garden), Swiss Chard	8/100 lba	6-1/2	520	46	88
Certificupe, Quountoer, Pumplifi, Squart, Watermaton	41/2/100 lbs.	91/2	245	23	94
Cerot, Endive, Lettuce, Pepper, Redeh, Spinech	8/100 lbs.	5	612	46	75
Com (Field)	1-1/2/bu	41/4	230	23	10
Com (Sweet)	5/100 lbs.	3-1/4	463	46	9.5
Eggelert	61/2/100 ba	33/4	612	-6	7.5
Colton-acid-delirated	41/2/10°bs	11	230	23	10
Collon-reginned and fuzzy	41/2/100 ba	3-1/4	460	46	10
Flax	ЗЬц	945	288	28	8
Grasses	8/100 lba	5-1/2	575	46	8
Orion	6/100 lbs	41/2	463	46	9,5
Rice	1-1/2/bu	6	230	23	10
Rye	Spri	64/5	230	28	10
Sellower	5pr	8-1/2	230	28	10
Small seed legt mass	8/100 lbs.	63/4	910	46	9
Sorghum and Milet	2bu	21/2	483	-6	95
Tomato	6/100 lbs.	434	8	46	88
Wrest	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 sturries, adjust sturry cups and dump weights to apply the amount of sturry shown.

For The Treatment of Rice Seed in California

Gustafson 42-S Thiram Fungicide and Repellent is a liquid organic fungicide recommended for the treatment of rice seed in Catifornia.

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	Application	Slurry	Seed	Dump
Concentration	Rate	Bucket	Gate	Weight
Mix1 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	Application	Cup	Dump
Concentration	Flate	Size	Weight
Mix 1 gallon of Gustafson 42-S with 1 gallon of water.	4 oz. per 100 lbs. seed.	15cc	6,5 ibs.

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

TOTAL FLUID CUNCES OF SLURRY PER HUNDRED POUNDS (cwr) OF PEANUT SEED AND PROPER MIX RATIO ARE EXTREMELY IMPORTANT, DO NOT DEVIATE FROM THE DOSAGE 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-30C plus GUSTAFSON 42-S THIRAM FUNGICIDE & REPELLENT

		Custufsori 42-S Thiram Fungicide & Repellent	Gustafson Peanut Seed Binder	Total Slurry/owt.
Peanuts	3 fl. ozs.	· .	+ 9 fl. ozs.	15 fl. ozs.

PRO-IZED SYSTEM III

GUSTAFSON BOTRAN-30C plus GUSTAFSON 42-S THIRAM FUNGICIDE & REPELLENT plus VITAVAX® -30C

	Gustafson		Gustafson	
42-S Thirem		Peanut		
Gustafson	Fungicide	Vitavax	Seed	Total
Botran-30C	Repullent	30C	Binder	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.

LABEL 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.

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. NEI-THER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FIT-NESS OR MERCHANTABILITY, GUARANTY OR REPRESEN-TATION, EXPRESS OR IMPLIED, CONCERNING THIS MATE-RIAL 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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