

GENERAL INFORMATION

GUSTAFSON S-42 S-1 Thiram Fungicide and Repellent when used as directed, protects fruit trees, shrubs, ornamentals, and nursery stock from rabbit and deer depredation. When combined with other active agents, it is valuable in protecting coniferous seed from bird and rodent destruction by permitting direct seeding. One application will protect treated parts from 1 to 3 months depending upon weather conditions. The addition of a special sticker as directed prolongs residual effectiveness. Repellency results from the distastefulness of treated plant parts.

IMPORTANT

Thoroughly flush sprayer screens and nozzles promptly following use.

Do not apply to fruit trees after fruit begins to form.

This product is toxic to fish. Keep out of any body of water.

STORAGE AND DISPOSAL

1. **STORAGE** - Store in a cool place. Keep container tightly closed to prevent evaporation. Stir before using.
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 spray, mixture, or residue that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
4. **CONTAINER DISPOSAL** - Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill or bury in a safe place.
5. **GENERAL** - Consult federal, state or local disposal authorities for approved alternative procedures.

DIRECTIONS

FOR USE AS A REPELLENT

Apply GUSTAFSON S-42 S-1 undiluted with a brush or diluted with water as a spray or as a dip. Thoroughly mix contents of container before using. Treat before the expected time of animal damage. Thoroughly cover area to a point well above the reach of animals. To permit repellent film to properly set, application should be made under favorable drying conditions but when temperature is above freezing. Mix only enough repellent for immediate use as the solids will settle on standing and are difficult to resuspend. For spray application dilute with water and apply with a hand or power pressure sprayer to give a heavy coating to the twigs and foliage parts to be protected. For heavier depositions, reduce the amount of water. For best film formation, apply when temperature is above 40°F and relative humidity below 70%.

Where a sticker is advised for prolonged retention, use a suitable resin, e.g., latex type such as Rohm & Haas Rhoplex AC 33, Dow Latex 205 or Nursery Specialty Products Wilt Proof. Do not use wetting and spreading additives (surfactants) such as DuPont Surfactant WK, as severe crop injury may result.

Brush on Coatings. Apply GUSTAFSON S-42 S-1 undiluted with a brush to stem parts to be protected. To increase residual beyond 3 months, add a small amount (2% to 4%) of latex-type sticker.

Spray Application, Growing Season. Use 1 qt. of GUSTAFSON S-42 S-1 and 1 pt. of latex-type sticker to 7 qts. of water. Repeat applications may be necessary to protect new growth. It is not necessary to use sticker under low rainfall conditions or where repeat applications are needed to cover new growth.

Spray Applications, Tree Trunks or Dormant Plants. Mix at a rate of 1 qt. of GUSTAFSON S-42 S-1 with 3 qts. of water and, for longer protection, add 1 pt. of latex-type sticker.

Spray Application, Dormant Apple Twigs, for Protection from Deer. Use at a rate of 2 gals. of GUSTAFSON S-42 S-1 plus 1 gal. of latex sticker in 100 gals. of spray suspension. Apply as a twig spray following leaf fall, thoroughly wetting twigs to a height of 5 ft. This rate will also protect summer growth from deer nibbling. Higher rates of GUSTAFSON S-42 S-1 may be needed under conditions of heavy deer pressure.

Dip Application. Young nursery plants may be treated at the time of transplanting by dipping the tops in a mixture prepared at a rate of 1 qt. of GUSTAFSON S-42 S-1 to 2 qts. of water and 1 pt. of latex-type sticker.

DIRECTIONS

FOR PELLETING CONIFEROUS SEED

GUSTAFSON S-42 S-1 Thiram Fungicide and Repellent, with suitable stickers and certain other materials, is recommended for the treatment of pine and other coniferous seeds to be planted primarily in forest areas. When used as directed, they will protect the seed from bird and rodent depredation until plants are established. Lower rates of fungicide are adequate to protect against damping off in nursery plantings.

Southern Pine Seeds

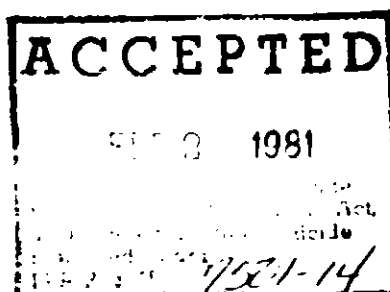
Limited to longleaf, loblolly, slash, and shortleaf.

GUSTAFSON S-42 S-1. Treat at the rate of 2 gals. of GUSTAFSON S-42 S-1 to 1 lb. of Endrin 50% and 16 fl. ozs. of Dow Latex 205 sticker per 100 lbs. of seed. First, slurry the Endrin 50% by slowly adding, while stirring with a paddle, 1/2 of the GUSTAFSON S-42 S-1. After mixture is thoroughly wetted, mix the slurry with an electric paint mixer until smooth, then turn in remaining GUSTAFSON S-42 S-1 to which the Latex sticker (undiluted) has been added. Slowly add the final slurry mixture to the seed while turning in a tumbler, such as a concrete mixer, batches of 25 to 50 lbs. of seed can be handled in a 3' x 4' ft. concrete mixer. The appropriate amount of slurry is approximately 1/2 gal. per 25 lbs. of seed. Turn a seed for 2 minutes and then add aluminum powder, 1 cup per 100 lbs. of seed, as a final overcoating and tumble for another minute. Spread coated seed in a thin layer and allow to dry for 3 to 4 hours before sowing.

Other Coniferous Seed

Blend 1 gal. of GUSTAFSON S-42 S-1 with 1 lb. of a 50% Endrin Wettable Powder Insecticide per 100 lbs. of seed. Add aluminum powder as a last step in the pelleting operation to give a thin overcoat to the Thiram-Endrin coating.

A quality product manufactured by



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THIRAM FUNGICIDE AND REPELLENT ORIGINAL FORMULATION

Contains 4 pounds thiram per gallon.

In case of contact, wash skin with plenty of soap and water, for eyes, flush with water for 15 minutes and get medical attention

NET CONTENTS 1 U S Gallon

[illegible]

Gladstone Bulbs: Treat any time after drying. Dip bulbs in a suspension made by mixing 1½ pints of GUSTAFSON'S #42-S in 8 gals. of water. Agitate the suspension. If bulbs are to be stored, spread out to dry.

Gustafson 42 S Thran
with Gustafson Britan
brand seed and seed
sco. and various other
Gustafson and Shedd
Britan - 300 and Vita
protection from Rhizor

For The Treatment Of Rice Seed In California

GUSTAFSON'S "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'S "42-S" will usually increase stands and yields by reducing losses from seed decay, damping-off and seedling blight caused by seedborne and soil-borne organisms.

DIRECTIONS

GUSTAFSON'S "42-S" is recommended for use on well-cured rice seed in California prior to pre-plant soaking. GUSTAFSON'S "42-S" 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 Gals	Dump Weight
Mix 1 gallon of GUSTAFSON'S "42-S" with 1 gallon of water	4 oz. per 100 lbs seed	23	18	10

MIST-O-MATIC TREATERS

Treater Tank Concentration	Application Rate	Cup Size	Dump Weight
Mix 1 gallon of GUSTAFSON'S "42-S" with 1 gallon of water	4 oz. per 100 lbs seed	15cc	8.5 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 *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-30C and Vitavax-30C as detailed in the PRO-IZED SYSTEM III, additional protection from *Rhizoctonia* soil 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.
Peanuts-	3 fl. ozs.	+ 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 Botran-30C	Gustafson 42-S Thiram Fungicide & Repellent	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 21CFR 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.

NOTICE: Specification of proprietary products does not imply an unqualified recommendation by Gustafson, Inc. There are undoubtedly others of similar type which may be equally or better suited for the purpose.

NOTICE TO BUYER: Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit to purposes stated on such label only when used in accordance with directions under normal use conditions. This warranty does not extend to use of the product contrary to label use directions, or under abnormal use conditions, or under conditions not reasonably foreseeable to seller. Buyer assumes all risk of any such use. Seller makes no other warranties, express or implied.

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