

**PRELIMINARY 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. Wash with soap and water after handling. Avoid inhaling of spray mist. Do not use or store near food or feed.

During commercial exposure in seed treatment and loading operations, wear goggles, clean synthetic rubber gloves, protective clothing, and a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 39 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 and wash all clothing with soap and hot water before reusing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and wildlife. Do not apply directly to lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds by burial away from bodies of water.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

- 1. PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
- 2. PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State, or Local procedures under the Resource, Conservation, and Recovery Act.
- 3. CONTAINER DISPOSAL:** Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill or by incineration if permitted by State and Local Authorities.
- 4. GENERAL:** Consult Federal, State, or Local Disposal Authorities for approved alternative procedures such as limited open burning.
- 5. STORAGE:** Store in a cool, dry place.

**THIRAM 42% UNDYED
FLOWABLE SEED PROTECTANT**

ACTIVE INGREDIENT:
Thiram (Tetramethylothiuram disulfide)

BY WT.
42.0%
58.0%
100.0%

INERT INGREDIENTS:

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 the throat with finger. Repeat until vomit fluid 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 side panel for additional precautionary statements.

ACCEPTED
43789-34

MAY 26 1981

U.S. Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under
EPA Reg. No. **43789-34**

Mfg. by Agricultural Products Co.
Ft. Worth, Texas 76112

EPA Est. 43789-TX-01
EPA Reg No. 43789-34

Net Contents

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GENERAL INFORMATION

This product is recommended for the treatment of listed seeds 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.

It is also useful as a repellent for rabbit and deer depredation of fruit trees, shrubs, ornamentals, and nursery stock when used as directed.

DIRECTIONS FOR USE

AS A SEED TREATMENT: This product should be applied with water as a suspension in the slurry-type treater designed and approved for this purpose, or may be applied by hand in any suitable mixing equipment such as home-made rotary drums. Seed may be treated anytime after being well-cured.

FOR SLURRY TYPE TREATER: Use by mixing with water in a slurry treater at the concentration necessary for the type of slurry equipment being used and the seed being treated.

FOR HAND SLURRY TREATMENT: Consult the following table for the number of fluid ounces recommended for each 100 pounds of seed. Add this amount to 1 pint of water for 100 pounds of seed. Stir to a smooth suspension. Place seed in a mixing container or spread in a 4-inch layer on floor on a clean dry cloth or paper. Sprinkle the measured amount of slurry suspension over the specified amount of seed and mix immediately. Turn seed at least 5 times and allow to dry before planting.

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."

FOR TREATMENT OF RICE SEED IN CALIFORNIA: Use this product at the rate of 4.0 ounces per 100 pounds of seed. It may be applied to well-cured rice seed prior to pre-plant soaking. It should be used with water as a suspension in treaters suitable for adequate mixing and accurate application to seed.
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.

NOTE TO USER

The purchaser of this product is responsible for insuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21 CFR Part 2.25. Any dye added to treated seed must be cleared for use under 40 CFR Part 180-1001.

THIAM 42% UNDYED WATER-SOLUBLE SEED PROTECTANT

INGREDIENTS:	BY WT.
Thiam 42% Undyed	42.0%
Water	58.0%
	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

WARNING: Drink one or two glasses of water and induce vomiting by rubbing back of the throat with finger. Repeat until clear. Call a Physician immediately. Do not induce vomiting by mouth to an unconscious person. Remove victim to fresh air. If not breathing, give artificial respiration by mouth-to-mouth. Wash the affected area with soap and warm water. Immediately flush eyes with running water for at least 15 minutes. Consult a Physician.

For additional precautionary statements.

ACCEPTED
43789-34
MAY 26 1981

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, by the Pesticide Registration Division, U.S. EPA Reg. No. 34789-34
Mfg. by Agricultural Products Co.
Ft. Worth, Texas 76112

9-TX-01
13789-34

Net Contents

GENERAL INFORMATION

This product is recommended for the treatment of fruit trees and ornamentals by reducing loss from seed decay, damping-off and seedling blights. It also usually controls the loose and covered kernel smuts of sorghum.

It is also useful as a repellent for rabbit and deer depredation of fruit trees, shrubs, ornamentals and nursery stock when used as directed.

DIRECTIONS FOR USE

AS A SEED TREATMENT: This product should be applied with water as a suspension in the slurry-type treater designed and approved for this purpose, or may be applied by hand in any suitable mixing equipment such as home-made rotary drums. Seed may be treated anytime after being well-cured.

FOR SLURRY TYPE TREATER: Use by mixing with water in a slurry treater at the concentration necessary for the type of slurry equipment being used and the seed being treated.

FOR HAND SLURRY TREATMENT: Consult the following table for the number of fluid ounces recommended for each 100 pounds of seed. Add this amount to 1 pint of water for 100 pounds of seed. Stir to a smooth suspension. Place seed in a mixing container or spread in a 4-inch layer on floor on a clean dry cloth or paper. Sprinkle the measured amount of slurry suspension over the spread amount of seed and mix immediately. Turn seed at least 5 times and allow to dry before planting.

IMPORTANT: Treated seed must not be used for animal feed or for processing for food. 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 accordance with applicable requirements of the Federal Seed Act. Labels attached to treated seed must state: "Treated seed must not be used for animal feed or for processing for food or for seedling propagation." 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.

FOR TREATMENT OF RICE SEED IN CALIFORNIA: Use this product at the rate of 4.0 ounces per 100 pounds of seed. It may be applied to well-cured rice seed prior to pre-plant soaking. It should be used with water as a suspension in treaters suitable for seed treatments. Mix and accurately apply to seed. **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.

NOTE TO USER

The purchaser of this product is responsible for insuring that all seed treated with this product are adequately dried with a suitable method to prevent its accidental use as food for man or feed for animals. Refer to 21 C.F.R. Part 227. Any seed added to treated seed must be dried for use under 40 C.F.R. Part 191.10-1.

SEED TREATMENT DOSAGE RATES

Seed	Fluid Ounces per 100 pounds
Barley	4.2
Beans (Snap & Dry)	2.0
Beans (Lima)	3.0
Beets (Garden & Sugar)	8.0
Cantaloupe, Cucumbers, Pumpkins	
Squash, Watermelon	4.5
Castor Beans	4.5
Corn	3.0
Cotton (Acid delinted)	4.5
Cotton (Reginned & Fuzzy)	4.5
Compsas	2.0
Eggplant	6.0
Flax	1.5
Grasses	4.0
Legumes (Small seeds)	4.0
Millet	4.0
Onion	4.0
Onions	4.0
Peanuts (Shelled)	4.5
Peas	3.0
Rice	4.0
Rye	4.0
Safflower	4.0
Sesame	4.0
Sorghum	2.7
Soybeans	2.0
Tomato	6.0
Wheat	3.5

Broccoli, Brussels Sprouts, Carrots, Cabbage, Cauliflower, Collards, Endive, Kale, Kohlrab, Lettuce, Mustard Peppers, Radish, Spinach, Swiss Chard, Turnip.

AS A REPELLENT: This product when used as directed protects fruit trees, shrubs, ornamentals and nursery stock from rabbit and deer depredation. One application will protect treated plants from 1 to 3 months depending upon weather conditions. The addition of a special sticker such as Loveland Industries B-1, Stick, Rohm & Haas Phopex AC-33, or Nursery Specialty Products "Wet-Fix" will extend the retention of this product on the plant. Do not use watering and spreading agents or surfactants as severe crop injury may result.

Brush On Coatings: Apply this product undiluted with a brush to stem parts to be protected. Thoroughly coat beyond and 10 months add a small amount (2 1/2-4 1/2) of latex-type sticker.

Spray Application, Growing Season: Use 1 quart of this product and 1 pint of latex-type sticker to 7 quarts of water. Repeat application may be necessary to protect new growth.

Spray Applications: Tree trunks or dormant plants. Mix at a rate of 1 quart of this product and 2 quarts of water and for protection add 1 pint of latex-type sticker.

Spray Application, Dormant Apple Twigs for Protection from Deer: Use at a rate of 2 gallons of this product plus 1 gallon of latex sticker in 100 gallons of spray suspension. Apply as a twig spray following leaf fall thoroughly setting twigs to a depth of 5 feet. This rate will also protect young growth from deer nibbling. Higher rates of this product may be necessary 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 quart of this product to 2 quarts of water and 1 quart of latex sticker.

IMPORTANT: Do not apply to fruit trees after the blossoms form.

AS A REPELLENT FOR PELLETING CONIFEROUS SEED: This product in combination with suitable stickers and certain other materials is recommended for the treatment of pine and other coniferous seeds to be planted directly in forest areas. When used as directed, it 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.

Directions for Southern Pine Seeds (Limited to Longleaf, Loblolly, Slash, and Shortleaf): Treat at a rate of 2 gallons of this product, 1 pound of Endrin 50W and 10 fluid oz of Dow Latex 205 sticker per 100 pounds of seed. After mixture is thoroughly mixed, mix the slurry with an electric paint mixer until smooth. Then blend in remaining Thiam 42% 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). Spread coated seed in a thin layer and allow to dry for 3 to 4 hours before sowing.

Directions for Other Coniferous Seed: Blend one gal. of this product with 1 pound of Endrin 50W per 100 lbs. of seed. Add aluminum powder as a dust-icc in the pelleting operation to give a thin overcoat to the Thiam-Endrin coating.

Directions for Damping-Off Protection: Use 2 quarts of this product undiluted to 3 quarts of water plus 5 fl. oz. of Dow Latex 205 per 100 pounds of seed. Tumble seed for approximately 2 minutes and then spread coated seed on a screen to dry.

IMPORTANT: Before using any of the materials listed here, read and carefully observe the cautionary statements and all other information appearing on the product labels.

NOTICE — READ CAREFULLY

CONDITIONS OF SALE: Seller(s) offers this product for sale subject to and buyer and all users are deemed to have accepted, the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Seller(s).

WARRANTY LIMITATION: Seller(s) warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use on the label subject to the inherent risks referred to below. Seller(s) makes no other express warranties. **THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY** and there are no warranties which extend beyond the description on the label hereof.

INHERENT RISKS: The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks associated with its use. Buyer assumes all risks associated with use or application of this product contrary to label instructions or resulting from extraordinary weather conditions.

LIMITATION OF LIABILITY: In no case shall Seller(s) be liable for special, indirect or consequential damages resulting from the use or non-use of this product and no claim of any kind shall be greater in amount than the purchase price of the product. The extent of which such damages are claimed.