

## 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.

Consumption of alcoholic beverages increases the toxic effect of thiram.

### ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish, birds and wildlife. 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. 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.

#### RE-ENTRY STATEMENT

Do not re-enter treated areas within 24 hours following application unless protective clothing is worn.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons in the area being treated must be vacated by unprotected persons.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Super dumping is prohibited. Do not reuse empty container.

**STORAGE:** Store in a cool, dry place, but do not allow to freeze. Keep container firmly closed when not in use.

**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 be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** (plastic) 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. (metal) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.



## THIRAM 420 DYED FLOWABLE SEED PROTECTANT

ACTIVE INGREDIENT: BY WT.  
Thiram (Tetramethylthiuram disulfide) ..... 42.0%  
INERT INGREDIENTS: ..... 58.0%  
100.0%

### 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 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.

Manufactured for:  
AGRICULTURAL PRODUCTS CO.  
GREELEY, CO 80631

EPA Est.  
EPA Reg. No. 43789-33

NET CONTENTS: 5 GAL.

BEST AVAILABLE COPY

This product is recommended for the treatment of treated seeds and, when directed, will usually increase stands 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

Fruit Trees, Shrubs, Ornamentals, and Nursery Stock 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.

#### CROP ROTATION

DO NOT rotate treated crops with crops other than those with registered thiram uses.

### 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 seed 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.

## SEED TREATMENT DOSAGE RATES

Type of Seed	Fluid ounces per 100 pounds
Barley	4.2
Cashew (Snap & Dry)	2.0
Beans (Lima)	3.0
Beets (Garden & Sugar)	8.0
Cantaloupe, Cucumber, Pumpkin	
Squash, Watermelon	4.5
Castor Beans	4.5
Corn	3.0
Cotton (Acala Height)	4.5
Cotton (Reginnet & Fuzzy)	4.5
Cowpeas	2.0
Eggplant	6.0
Flax	5.3
Grasses	8.0
Legumes (Small seeded)	8.0
Millet	4.0
Okra, Onions	6.0
Peanuts (Shelled)	4.5
Peas	3.0
Rice	2.5
Rye	3.7
Safflower	4.0
Sesame	3.0
Sorghum	2.7
Soybeans	2.0
Tomato	6.0
Wheat	3.3

Broccoli, Brussel Sprouts, Carrots, Cabbage, Cauliflower, Collards, Endive, Kale, Kohlrabi, Lettuce, Mustard, Peppers, Radish, Spinach, Swiss Chard, Turnip. All 8.0

**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 parts from 1 to 3 months, depending upon weather conditions. The addition of a special sticker such as Loveland Industries Big Stick, Rohm & Haas Phoplex AC-33, or Nursery Specialty Products Wilt-Proof will aid in the retention of this product on the plant. Do not use wetting 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. To increase residual beyond three months, add a small amount (2% - 4%) 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 applications may be necessary to protect new growth.

**Spray Applications, Tree Trunks or Dormant Plants:** Mix at a rate of 1 quart of this product with 3 quarts of water and, for longer 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 fine spray following leaf fall, thoroughly wetting twigs to a height of 5 feet. This rate will also protect summer 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.

## 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.

Consumption of alcoholic beverages increases the toxic effect of thiram.

### ENVIRONMENTAL HAZARDS

This pesticide product is toxic to fish, birds and wildlife. 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. 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.

#### RE-ENTRY STATEMENT

Do not re-enter treated areas within 24 hours following application unless protective clothing is worn.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Store in a cool, dry place, but do not allow to freeze. Keep container firmly closed when not in use.

**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 be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** (plastic) 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. (metal) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

BEST AVAILABLE COPY



## THIRAM 420 DYED FLOWABLE SEED PROTECTANT

ACTIVE INGREDIENT: BY WT.  
Thiram (Tetramethylthiuram disulfide) ..... 42.0%  
INERT INGREDIENTS: ..... 58.0%  
100.0%

### 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 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

Manufactured for:  
AGRICULTURAL PRODUCTS CO.  
GREELEY, CO 80631

EPA Est.  
EPA Reg. No. 43789-33

NET CONTENTS: 5 GAL.

### GENERAL INFORMATION

This product is recommended for the treatment of listed seeds and, when directed, will usually increase stands and, by reducing loss from seed decay, damping-off, and seedling blights. It also will usually control the loose and covered kernel smut 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

Fruit Trees, Shrubs, Ornamentals, and Nursery Stock 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.

#### CROP ROTATION

DO NOT rotate treated crops with crops other than those with registered thiram uses.

### 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 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. 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 in flood-irrigated.

### SEED TREATMENT DOSAGE RATES

Type of Seed	Fluid ounces per 100 pounds
Barley	42
Beans (Snap & Dry)	20
Beans (Lima)	30
Beets (Garden & Sugar)	80
Cantaloupe, Cucumber, Pumpkin	
Squash, Watermelon	45
Castor Beans	45
Corn	30
Cotton (Acala, Negi)	45
Cotton (Regined & Fuzzy)	45
Cowpeas	20
Eggplant	60
Flax	53
Grasses	80
Legumes (Small seeded)	80
Millet	40
Okra, Onions	60
Peanuts (Shelled)	45
Peas	30
Rice	25
Rye	37
Safflower	40
Sesame	30
Sorghum	27
Soybeans	20
Tomato	60
Wheat	33

Broccoli, Brussels Sprouts, Carrots, Cabbage, Cauliflower, Celery, Endive, Kale, Kohlrabi, Lettuce, Mustard, Peppers, Radish, Spinach, Swiss Chard, Turnip

All 80

**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-Stick, Rohm & Haas Phlogex AC-33, or Nursery Specialty Products, Will-Pruf, will aid in the retention of the product on the plant. Do not use wetting 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. To increase residual beyond three months, add a small amount (2% to 4%) 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 applications may be necessary to protect new growth.

**Spray Applications, Tree Trunks or Dormant Plants:** Mix at a rate of 1 quart of this product with 3 quarts of water and for longer 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 fog spray following leaf fall, thoroughly wetting twigs to a height of 5 feet. This rate will also protect summer 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.

43 789-33 Pm