



Seed Treatment

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl [(1,2-phenylene)-bis(iminocarbonothioyl)] bis [carbamate])* 46.2%

OTHER INGREDIENTS: 53.8%

TOTAL: 100.0%

* Also known as dimethyl 4,4-o-phenylenebis [3-thioallophanate]

* 4.5 lbs active ingredient per gallon

EPA Reg. No. 70506-341

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergency, call the Rocky Mountain Poison and Drug Center at 1-866-673-6671.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils.

Mixers, loaders and applicators must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks
- Chemical-resistant gloves
- Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near oxidizing agents.

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 assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, 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). The REI is 12 hours except as listed in the application rate tables below.

Exemption: If the product is applied by drenching, 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.

(continued)

AGRICULTURAL USE REQUIREMENTS (continued)

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:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material
3. Chemical-resistant footwear plus socks
4. Chemical-resistant headgear for overhead exposure

DIRECTIONS FOR USE

SHAKE WELL BEFORE EACH 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.

For use only in liquid or slurry treaters by commercial seed treaters.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitation and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

NOTE: To prevent use on food for man or feed for animals, users of this product are responsible for using a dye and colorant that will adequately dye and color the seed. Refer to 21 CFR, Part 2.25. Any dye or colorant added to treated seed must be cleared for use under 40 CFR, Part 180.900. Official tolerances for residual pesticides on treated commodities has been established in federal regulations. To ensure these tolerances are not exceeded use product only at specified rates on this label.

Treated seed cannot be mixed with or used for food or animal feed. Treated seed cannot be processed for oil. Use of this product in commercial seed treatment must be labeled in accordance of the Federal Seed Act.

SEED LABELING

The federal seed act requires the following wording on bags containing treated seeds:

"This seed has been treated with StartUP T-MTYL Seed Treatment (thiophanate methyl). DO NOT use for food, feed, or oil processing. Store away from feeds and other foodstuffs."

Commercially treated seed labeling must include the following additional wording under Environmental Hazards Statements:

"Exposed treated seed may be hazardous to birds and wildlife. Dispose of all excess treated seed and seed packaging or containers by burial away from bodies of water in accordance with any local requirements. Cover, incorporate, or collect treated seeds spilled during loading and planting. **DO NOT** contaminate bodies of water when disposing of planting equipment washwater."

Containers containing treated seed must have the following statements per U.S. Environmental Protection Agency regulations:

"**DO NOT** allow children, pets or livestock to have access to treated seeds."

"**DO NOT** graze or feed livestock on treated areas for 45 days after planting."

"Wear long pants, long-sleeved shirt, shoes, socks, and chemical-resistant gloves when opening this bag or loading/pouring the treated seed."

"After the seeds have been planted, do not enter or allow worker entry into treated areas during the **restricted-entry interval (REI) of 12 hours**. Exception: if the treated seed 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 made of any waterproof material, and chemical-resistant footwear."

PRODUCT INFORMATION

For best disease protection and seed safety apply as a seed treatment using standard mist-type or slurry seed treatment equipment. Ample seed coverage requires proper product dilution with water. Well cured and sound seed is required before seed treating. Slurry rates for the crops to be treated can be determined by consultation with a seed treatment expert. STartUP T-MTYL Seed Treatment will add to systemic protection of seed and seedling, and improve control under high disease pressure when used in combination with other fungicides that share similar a biological spectrum.

PEANUTS

DISEASE	RATE (FL OZ / 100 LBS OF SEED)
Seed Decay (such as <i>Aspergillus</i> spp.) Seedling Blight (suppression of <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	0.14 to 0.28 (0.005 - 0.01 lb ai)
Seed borne <i>Sclerotinia</i> spp.	0.94 to 1.12 (0.033 - 0.04 lb ai)

SOYBEANS

DISEASE	RATE			MG AI / SEED
	FL OZ OF PRODUCT /			
	100 lb seed*	1000 seeds	140,000 seeds	
Seed Decay (such as <i>Phomopsis</i> spp., <i>Fusarium</i> spp.) Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	0.14 to 0.28	0.0005 to 0.0010	0.065 to 0.130	0.008 to 0.015

This product contains 15,970 mg ai / fluid ounce.

*Based on a standard number of 3000 seeds / lb (150,000 seeds / 50 lb bu)

NOTE: To maintain mg ai / seed, adjust fluid ounces / 100 lb in proportion to the actual seeds / lb compared to the standard number of seeds / lb for that crop; fluid ounces per number of seeds (i.e., 1000, 140,000) does not need to be adjusted. For example if there are 2800 soybean seeds / lb and the targeted rate is 0.0075 mg ai / seed at a non-adjusted rate of 0.14 fl oz / 100 lb of seed, use: $(2800 \div 3000) \times 0.14 = 0.13$ fl oz / 100 lb of seed.

DRY BEANS, SNAP BEANS

DISEASE	RATE (FL OZ / 100 LBS OF SEED)
Seed Decay (such as <i>Phomopsis</i> spp., <i>Fusarium</i> spp.) Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	0.14 to 0.28 (0.005 - 0.01 lb ai)

WHEAT

DISEASE	RATE (FL OZ / 100 LBS OF SEED)
Seed Decay (such as <i>Fusarium</i> spp.) Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	0.14 to 0.28 (0.005 - 0.01 lb ai)

POTATO SEED-PIECE TREATMENT

Use STartUP T-MTYL to suppress potato seed-piece diseases cause by *Fusarium* (dry rot), *Rhizoctonia* (black scurf and stem canker), and *Helminthosporium solani* (silver scurf). STartUP T-MTYL is not effective against systemic seed-piece infections or airborne (secondary) inoculum. Ensure that cut seed-pieces are thoroughly coated with STartUP T-MTYL at the rate specified below. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks and planters before cutting and planting seed-pieces. Consult your local extension specialist for detailed information about Silver Scurf treatments in your area.

POTATOES

DISEASE	RATE (FL OZ / 100 LBS OF SEED-PIECES)
Dry Rot (<i>Fusarium</i> spp.) Black Scurf and Stem Canker (<i>Rhizoctonia solani</i>) Silver Scurf (<i>Helminthosporium solani</i>)	0.5 to 0.7 (0.018 - 0.025 lb ai)

NOTE: For improved protection against the listed diseases that originate from surface infestations of potato seed-pieces apply this product in combination with a product that is active on the targeted disease(s) and use a treatment following application to absorb liquid from the seed-piece. This product will not provide consistent control when used alone and is not active on existing systemic infections.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to **Precautionary Statements** on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Non-refillable containers (Up to 5 gallons): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Non-refillable containers (Greater than 5 gallons): Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Refillable container (250 gallons): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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