

# SPECIMEN LABEL

**Agri Star®**  
By Albaugh, LLC

# T-METHYL 4.5L ST

## Fungicide

Manufactured for:  
**ALBAUGH, LLC**  
1525 NE 36th Street  
Ankeny, Iowa 50021

**FOR CHEMICAL SPILL,  
LEAK, FIRE, EXPOSURE, OR  
ACCIDENT, CALL CHEMTREC  
1-800-424-9300**

AD082415  
43925AL0NNC

**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]

Contains 4.5 Lbs. Thiophanate Methyl per gallon.

EPA Reg. No. 42750-295

EPA Est. No. 42750-MO-001

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

**IF SWALLOWED:** 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:** 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:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**HOT LINE NUMBER –** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-844-685-9172 for emergency medical treatment information.

**See inside booklet for additional PRECAUTIONARY STATEMENTS  
and complete DIRECTIONS FOR USE.**

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

**CAUTION.** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin.

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### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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Some materials that are chemical-resistant to this product are Barrier Laminate Gloves, Nitrile Rubber Gloves  $\geq$  14 mils, or Viton Gloves  $\geq$  14 mils.

**Handlers mixing, loading and apply the product as a dip must wear:**

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves
3. Chemical-resistant footwear plus socks
4. Chemical-resistant apron

**All other mixers, loaders and applicators must wear:**

1. Long-sleeved shirt and long pants
2. Shoes plus socks
3. Chemical-resistant gloves for all mixers and loaders and for application using hand held equipment, and
4. Chemical-resistant apron for mixers, loaders, and other handlers exposed to concentrate

### USER SAFETY REQUIREMENTS

Follow the 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.

**ENGINEERING CONTROLS:** When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in WPS.

### USER SAFETY RECOMMENDATIONS

**Users should:**

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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.

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### ENVIRONMENTAL HAZARDS

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Do not apply directly to water, or to 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 or rinsate.

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## DIRECTIONS FOR USE

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**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 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.

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

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## PRODUCT INFORMATION

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T-METHYL 4.5L ST may be applied with a standard slurry or mist-type seed treatment equipment. Refer to the section on "Seed Treatment" for application instructions.

T-METHYL 4.5L ST may be tank mixed with other fungicides, insecticides and plant growth regulators that have been approved for use by the EPA on the intended crop. Albaugh, LLC does not make any claims of compatibility with other pesticides; always perform a Mixing Jar Test prior to tank mixing. See "Compatibility Test" section on this label. Tank mixes of this product with highly alkaline pesticides like Bordeaux or lime sulfur is not recommended.

### Mode of Action:

T-METHYL 4.5L ST is a tubulin inhibitor fungicide falling into the FRAC Group 1 for Benzimidazoles. Its Mode of Action is the inhibition of microtubule assembly. It has protectant, systemic and curative actions, each of these specific to certain crops, fungi and climatic conditions.

### Fungicide Resistance:

Fungal pathogens have proven to develop a resistance to certain fungicide families and modes of action. These are called tolerant and resistant strains of fungi. Industry and university research have developed effective programs that continue to provide excellent control of these strains, however, precautions and specific steps should be taken to ensure effective fungicide rotation, tank mixing of different modes of action and disease monitoring are the keys of your fungicide program.

Should T-METHYL 4.5L ST be applied as directed and the treatment is considered not to be effective, you may have encountered a resistant or tolerant fungi strain. Do not apply this mode of action chemistry again during this growing season, as this may enhance the resistance at this site. Consult with your local Cooperative Extension Service, University Research or Certified Crop Consultant for more information concerning fungicides effective on the tolerant or resistant strains encountered.

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## SEED TREATMENT

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### USE DIRECTIONS

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 applications. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

T-METHYL 4.5L ST Fungicide is for commercial seed treatment use on listed crops. It is to be used only with slurry or misting (liquid) seed treatment equipment. It is not to be used by agricultural companies in hopper-box, planter-box, slurry box or other seed treatment applications before (or immediately at) planting.

Make sure that T-METHYL 4.5L ST Fungicide container is well shaken or otherwise mixed before use, particularly if entire contents are not used at one time. If tank mixing this seed treatment product with other products, carry out a compatibility test before mixing and applying. When tank mixing, read and follow the label of each tank mix product used for precautionary statements, directions for use, rates, and timings, and other restrictions. Observe the most restrictive label instructions.

**Note:** The purchaser of this product is responsible for ensuring that all seed treated with this product is adequately dyed with a suitable colorant to prevent its accidental use as food for man or feed for animals. 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. Federal regulations have established official tolerances for certain pesticide residues. In order that residues on food and forage crops will not exceed established tolerances, use only at specified rates.

Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act.

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## SEED LABELING

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THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEED BE LABELED WITH THE FOLLOWING INFORMATION:

*“This seed has been treated with T-METHYL 4.5L ST (thiophanate-methyl) seed treatment. Do not use for food, feed, or oil processing. Store away from feeds and other foodstuffs.”*

LABELS FOR COMMERCIALY TREATED SEED MUST INCLUDE THE FOLLOWING ADDITION TO THE 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 wash water.”*

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS CONTAINING TREATED SEED:

*“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.”*

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## PRODUCT INFORMATION

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T-METHYL 4.5L ST can be applied to the following well cured, healthy seeds, to provide protection to the seed or seedlings from listed diseases. Use of this product in combination with other fungicides having efficacy against listed diseases can enhance performance if disease pressure is elevated, and will augment general protection of the seed. Dilute product in enough water for application to seeds via seed treatment equipment for misting or slurry. For application questions regarding a particular seed type, consult a seed treatment specialist.

### PEANUTS

For use on PEANUT seeds for suppression of seedling blight (*Fusarium* spp. and *Rhizoctonia* spp.) and seed decay (such as *Aspergillus* spp.), use 0.14 to 0.28 fl. oz. product (0.005 – 0.01 lb a.i.) per 100 lbs of seed. For control against seed borne *Sclerotinia* spp., use 0.94 to 1.12 fl. oz. product (0.033 – 0.04 lb ai/A) per 100 lbs of seed.

### SOYBEANS

For use on SOYBEAN seeds for suppression of seedling blight (soilborne *Fusarium* spp. and *Rhizoctonia* spp.), use 0.14 to 0.28 fl. oz. product (0.005-0.01 lb a.i.) per 100 lbs of seed, based on typical seed weight of 3000 seeds per pound, or 150,000 seeds per 50 pound bushel. If seed rate per pound is different, adjust amount of product used accordingly. For other weights/concentrations:

1 seed	0.008 to 0.015 mg. a.i.*
1000 seeds	0.0005 to 0.0010 fl. oz. product
140,000 seeds	0.065 to 0.0130 fl. oz. product

\*This product contains 15,970 mg. a.i. per 1 fluid ounce

**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

For use on DRY BEAN and SNAP BEAN seeds against seedling blight (soilborne *Fusarium* spp. and *Rhizoctonia* spp.) and seed decay (such as *Phomopsis* spp. and *Fusarium* spp.), use 0.14 to 0.28 fl. oz. product (0.005 to 0.01 lb. a.i.) per 100 lbs. of seed.

### WHEAT

For use on WHEAT seeds against seedling blight (soilborne *Fusarium* spp. and *Rhizoctonia* spp.) and seed decay (such as *Fusarium* spp.), use 0.14 to 0.28 fl. oz. product (0.005 to 0.010 lb. a.i.) per 100 lbs. of seed.

### POTATO SEED PIECE TREATMENT

For use on cut POTATO SEED PIECES for suppression of diseases caused by Silver Scurf (*Helminthosporium solani*), Black Scurf and Stem Canker (*Rhizoctonia solani*) and dry rot (*Fusarium* spp.), use 0.5 to 0.7 fl. oz. product (0.018 – 0.025 lb. a.i.) per 100 lbs. of seed pieces. For adequate control, cut seed pieces must be completely covered with solution. Before cutting and planting seed pieces, make certain that all equipment is completely cleaned and sanitized (including tables, trays, knives, cutting machines, barrels, planters, trucks and any other equipment).

This product will not protect against systemic seed piece diseases, or airborne inoculum, and if used alone (not in combination with another fungicide), will not deliver consistent efficacy. Use of this product in combination with another fungicide having efficacy against listed diseases that arise from exterior infestations of seed pieces can enhance and provide more consistent performance. Additionally, follow application with a treatment that absorbs liquids from the seed pieces. For application questions regarding control of Silver Scurf in your area, consult a seed treatment or local extension specialist.

# STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store this product in a cool, dry place in its original container only. Do not store this product near fertilizers, seeds, or other pesticides. If this product is spilled, you should sweep up the spillage and dispose pursuant to the below Pesticide Disposal instructions.

**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 used 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 HANDLING:**

### **Nonrefillable containers less than or equal to 5 gallons:**

Nonrefillable container. 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 and drain for 10 seconds after the flow begins to drip. 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.

### **Nonrefillable containers greater than 5 gallons:**

Nonrefillable container. 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. Turn the container over onto its other 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.

Offer for recycling, if available, or dispose of empty containers in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### **Refillable Containers:**

Refillable container. 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 this container into application equipment or a 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 a rinsate collection system. Repeat this procedure two more times.

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## WARRANTY AND DISCLAIMER STATEMENT

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The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Albaugh, LLC, LLC ("Albaugh, LLC"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Albaugh, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Albaugh, LLC, and is subject to the inherent risks described above.

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