

55146-127

9/9/2013

1/8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

SEP 09 2013

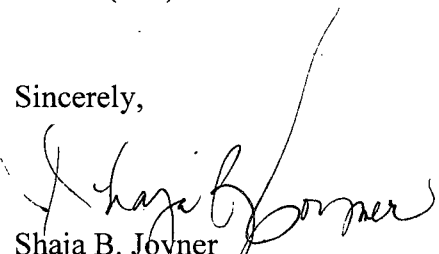
Mr. Nathan P. Ehresman  
Nufarm Americas Inc., AGT Division  
4020 Aerial Center Parkway, Ste. 101  
Morrisville, NC 27560

Subject: ST-Methyl 540FS  
EPA Reg. No. 55146-127  
Me-Too label amendment to add potato seed piece use  
EPA Decision No. 478643

Dear Mr. Ehresman:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. One copy of the label stamped "Accepted" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label before the product is released for shipment.

If you have any questions, please contact Shaunta Hill by phone at (703) 347-8961 or via email at [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov).

Sincerely,  
  
Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosure

# ST-METHYL 540 FS

## Seed Treatment Fungicide

**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 pounds thiophanate-methyl per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION / PRECAUCION**  
See inside label booklet for FIRST AID and PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

**ACCEPTED**  
  
**SEP 09 2013**  
  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg No. 55146-127

EPA REG. NO. 55146-127  
EPA EST. NO. \_\_\_\_\_

MANUFACTURED FOR  
NUFARM AMERICAS INC.  
AGT DIVISION  
150 HARVESTER DRIVE  
BURR RIDGE, IL 60527



Net Contents: \_\_\_\_\_ gallons ( \_\_\_\_\_ liters)

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION / PRECAUCION**

Causes moderate eye irritation. Harmful if swallowed or inhaled. Harmful if absorbed through skin. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, and viton ≥ 14 mils. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:**

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

**Note:** Persons involved in bagging treated seed, sewing or moving bags of treated seed, or cleaning up bagging areas or seed treatment equipment are pesticide handlers and must wear the PPE required on this label for pesticide handlers.

**USER SAFETY REQUIREMENTS**

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.

**USER SAFETY RECOMMENDATIONS**

Users should:

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

**FIRST AID**

<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**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 1-877-325-1840 for emergency medical treatment information.

4/8

## ENVIRONMENTAL HAZARDS

**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 by disposing of equipment washwater.

## PHYSICAL AND CHEMICAL HAZARDS

**DO NOT** use or store near oxidizing agents.

## DIRECTIONS FOR 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 by commercial seed treaters only in liquid or slurry treaters. Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

Mix thoroughly before use or use entire container at one time. All tank mixes should be pre-tested to determine physical compatibility between formulations. Observe the most restrictive use precautions and limitations on labeling of the products used in mixtures.

**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.

## SEED LABELING

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

*"This seed has been treated with ST-METHYL 540 FS (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."*

5/8

## PRODUCT INFORMATION

Apply as a seed treatment using standard slurry or mist-type seed treatment equipment. Uniform application to seed is necessary to ensure seed safety and best disease protection. Seed must be sound and well cured prior to treatment. Product must be diluted with sufficient water to ensure complete seed coverage. Consult a seed treatment specialist regarding slurry rates for the crop to be treated with this product.

When used in combination with other fungicides having a similar biological spectrum, this product will add to the systemic protection of the seed and seedling and improve control under high disease pressure.

<b>PEANUTS</b>	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Aspergillus</i> spp.)	0.14 to 0.28
Seedling Blight (suppression of <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)
Seed borne <i>Sclerotinia</i> spp.	0.94 to 1.12 (0.033 – 0.04 lbs AI)

<b>SOYBEANS</b>				
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)				
<b>NOTE:</b> 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.				

<b>DRY BEANS, SNAP BEANS</b>	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Phomopsis</i> spp., <i>Fusarium</i> spp.)	0.14 – 0.28
Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)

<b>WHEAT</b>	
DISEASE	RATE (Fl. Oz. / 100 lbs. of Seed)
Seed Decay (such as <i>Fusarium</i> spp.)	0.14 to 0.28
Seedling Blight (soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp.)	(0.005 – 0.01 lbs AI)

### POTATO SEED-PIECE TREATMENT

Use ST-METHYL 540 FS to suppress potato seed-piece diseases cause by *Fusarium* (dry rot), *Rhizoctonia* (black scurf and stem canker), and *Helminthosporium solani* (silver scurf). ST-Methyl 540 FS is not effective against systemic seed-piece infections or airborne (secondary) inoculum. Ensure that cut seed-pieces are thoroughly coated with ST-Methyl 540 FS 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.

<b>POTATOES</b>	
<b>DISEASE</b>	<b>RATE (Fl. Oz./100 lbs. of Seed-Pieces)</b>
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 lbs 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 and disposal.

**PESTICIDE STORAGE:** Store in original container in a dry, temperature controlled, secure place.

**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:**

[[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size."]

**[Nonrefillable Containers 5 Gallons or Less]**

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. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**[Nonrefillable containers larger than 5 gallons]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. 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. Plastic containers are also disposable 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% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

8/8

### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

**(RV042913)**

All trademarks that appear on this label which are not owned by Nufarm Americas Inc. or its subsidiaries are the property of their respective owners.