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**ACCEPTED**

SEP 29 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 7501-157

**TOPS® MZ**

## Potato Seed-Piece Treatment Fungicide

**ACTIVE INGREDIENT:**

Thiophanate-methyl (dimethyl[(1,2-phenylene) bis (iminocarbonothioyl)]bis(carbamate))*	2.5%
A coordination product of zinc ion and manganese ethylene bisdithiocarbamate	6.0%
In which the ingredients are:	
Manganese++	1.2%
Zinc++	0.15%
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> )	4.65%
INERT INGREDIENTS:	91.5%
TOTAL	100.0%

\*Also known as dimethyl 4,4'-O-phenylenebis[3-thioallophate].

EPA Reg. No. 7501-157

Covered under U.S. Patent Number 5007953

### KEEP OUT OF REACH OF CHILDREN CAUTION - AVISO

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

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Harmful if absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

**PERSONAL PROTECTIVE EQUIPMENT:**

Applicators and other handlers (other than mixers and loaders) must wear: coveralls over long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Mixers and loaders must wear coveralls over long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eyewear and chemical-resistant apron when mixing/loading. For exposures in enclosed areas, mixers and loaders must wear a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G); for exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and

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hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems 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 the WPS.

**USER SAFETY RECOMMENDATIONS:**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing 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.

**STATEMENT OF PRACTICAL TREATMENT**

If swallowed - Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled - Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin - Wash affected areas with soap and water.

If in eyes - Flush eyes with plenty of water. Call a physician immediately.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in cool, dry location. Do not store in direct, hot sunlight.

**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 Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

#### DIRECTIONS FOR USE

It is a violation of the Federal law to use this product in a manner inconsistent with its labeling. Do not use this product at higher than recommended rate.

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), 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) of 24 hours. Exception: if the product 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 over long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

#### GENERAL INFORMATION

**Note:** Thiophanate-methyl is a systemic fungicide having a specific mode of action which has been subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, Gustafson, Inc. cannot assume liability for crop damage resulting from resistant strains of fungi. Consult with your local extension potato specialist for guidance and ways to control any possible resistant strains of fungi which may occur.

#### APPLICATION

**TOPS MZ** aids in the suppression of potato seed-piece diseases caused by *Fusarium* (dry rot), *Rhizoctonia* (black scurf and stem canker), and *Helminthosporium solani* (silver scurf) and will help reduce the spread of *Phytophthora infestans* (late blight) that may occur from surface infestation resulting from seed-piece to seed-piece contact during the handling, cutting and planting process. [\*TOPS MZ is not efficacious against systemic seed-piece infections or airborne (secondary) inoculum]. Use 0.75-1.0 pound TOPS MZ per 100 pounds of cut seed-pieces. Apply by means of a seed dust metering applicator or dust attachment positioned over the belt so that the cut seed-pieces are thoroughly covered with TOPS MZ. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks and planters before cutting and planting seed-pieces. Consult your local

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extension potato specialist for detailed information about controlling Silver Scurf in your area.

Do not use treated seed-pieces for food, feed or fodder. Plant as soon as possible after cutting and treating in accordance with the basic recommendations of your local extension potato specialist.

Apply only in areas with adequate ventilation or dust collection and control equipment installed. Do not substitute fans for ventilation in areas where application is made to cut potatoes.

**NOTE:** This pesticide is to be sold ONLY in this original, unbroken package.

#### NOTICE

This pesticide will not control bacterial diseases or other diseases not claimed on this label. Consult your local extension potato specialist for variety and treatment information, and for recommendations specific to your area on how to minimize the potential expression of seed-piece decay and potato diseases.

#### NOTICE - READ CAREFULLY CONDITIONS OF SALE AND LIMITED WARRANTY STATEMENT

Treatment of highly mechanically damaged seed-pieces, or seed-pieces of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. As its sole express warranty, Gustafson, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for purposes stated on the label only when used in accordance with directions and instructions specified on the label, subject to the inherent risks set forth above. ONLY AS PERMITTED BY APPLICABLE LAW, IN THE EVENT OF A BREACH OF THIS LIMITED WARRANTY, GUSTAFSON, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. SUBJECT TO APPLICABLE LAW, GUSTAFSON, INC. NEITHER MAKES NOR AUTHORIZES ANY OF ITS AGENTS OR REPRESENTATIVES TO MAKE ANY WARRANTY OF FITNESS OR MERCHANTABILITY, GUARANTY OR REPRESENTATION, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL. Buyer assumes the responsibility to handle, use and store this product in accordance with the safety instructions and use directions contained on the label.

Buyer/User purchases this product subject to the foregoing Conditions of Sale and Limited Warranty, which, subject to applicable law, may be varied only by a written agreement signed by a duly authorized representative of Gustafson, Inc. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

A quality product manufactured for:  
**Gustafson, Inc.**  
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Plano, Texas 75093  
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