

7501-183

3/4/2002

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ACCEPTED

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
Registered under
EPA Reg. No. 7501-183

TOPS®-MZ-GAUCHO®**Potato Seed-Piece Treatment****ACTIVE INGREDIENTS:**

Imidacloprid (1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine).....1.25%
 Thiophanate-methyl (dimethyl[(1,2-phenylene)bis (iminocarbonothioyl)]bis[carbamate])*2.5%
 Mancozeb: 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 (C₄H₆N₂S₄)4.65%

INERT INGREDIENTS: 90.25%
TOTAL 100.00%

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

EPA Reg. No. 7501- 183

EPA Est.

NET CONTENTS:

KEEP OUT OF REACH OF CHILDREN CAUTION

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

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapor or spray mist. Avoid contact with eyes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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 do so by a poison control center or doctor.

-Do not give anything by mouth to an unconscious person.

If on skin or clothing:

- 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

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5 minutes, then continue rinsing the eye.

-Call a poison control center or doctor for treatment advice.

PERSONAL PROTECTIVE EQUIPMENT:

Some materials that are chemical-resistant to the product are listed below. If you want more options, follow the instructions for Category A on the EPA chemical resistance chart. Applicators and other handlers (other than mixers and loaders) must wear: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks and a NIOSH approved respirator with any N, R, P or HE filter. Mixers and loaders must wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks, protective eyewear and chemical-resistant apron when mixing/loading. For exposures in enclosed areas, mixers and loaders must wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter; for exposures outdoors, a NIOSH approved respirator with any N, R, P or HE filter.

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

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds and aquatic invertebrates and 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 when disposing of equipment washwaters. Exposed treated seed-pieces may be hazardous to birds. Dispose of all excess treated seed-pieces and seed packaging by burial away from bodies of water.

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. Protect from freezing temperatures.

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment. Do not reuse

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empty bag. Open dumping is prohibited.

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.

CONTAINER DISPOSAL: Completely empty bag into application equipment by tapping sides to dislodge residues. 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. This labeling must be in the possession of the user at the time of application. 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.

RESISTANCE MANAGEMENT

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 resistant strains cannot be predicted. Therefore, Gustafson LLC 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. This pesticide will not control bacterial diseases or other diseases not claimed on the 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.

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

PESTS CONTROLLED

Potato Seed-Piece - To aid in control of insects including aphids, Colorado potato beetle, flea beetle, potato leafhopper, psyllids, *wireworms (*Limonius* sp., and *Melanotus* sp.), and diseases including *Fusarium* (dry rot), *Rhizoctonia* (black scurf and stem canker), *Helminthosporium solani* (silver scurf) and to 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. Consult your local extension potato specialist for detailed information about controlling silver scurf in your area. *TOPS-MZ-GAUCHO when used at the label rate can reduce wireworm damage in seed pieces, and can also reduce the amount of damage in the daughter tubers.

**TOPS-MZ-GAUCHO is not efficacious against systemic seed-piece infections or airborne (secondary) inoculum.

RECOMMENDED APPLICATION

Apply at 0.75 pound per 100 pounds of cut seed-pieces. Apply using a seed dust metering applicator so that cut seed-pieces are thoroughly covered with the mixture. Thoroughly clean and sanitize cutting machines, knives, trays, tables, barrels, equipment, trucks and planters before cutting and planting seed-pieces. Plant seed-pieces as soon as possible after cutting and treating in accordance with the recommendations of your local extension potato specialist. Avoid prolonged exposure of treated seed-pieces to sunlight.

The length of control will vary depending on the rate used. Consult your local Bayer or Gustafson representative or dealer for information relevant to your area.

RESTRICTIONS:

Do not use treated seed-pieces for food, feed, or fodder.

Regardless of the type of application (seed-piece treatment, soil or foliar) do not apply more than 0.25 pounds a.i. (imidacloprid) per acre per year.

Apply only on 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.

ROTATIONAL CROPS:

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed

ROTATIONAL PLANT-BACK INTERVALS¹

Immediate Plant-Back

Barley	Cauliflower	Peonies
Beans, edible podded	Collards	Pepper
Beans, succulent shelled	Corn	Potatoes
Broccoli	Cotton	Rape greens
Broccoli, Chinese	Cucurbits	Sorghum
Broccoli, raab	Eggplant	Sugar beets
Brussels Sprouts	Ground cherry	Sweet corn
Cabbage, Chinese mustard	Kale	Tomatillo
Cabbage, Chinese	Kohlrabi	Tomato
Cabbage	Lettuce	Wheat
Canola	Mustard greens	

30-Day Plant-Back

Cereals

(Including buckwheat, millet, oats, popcorn, rice, rye, and triticale)

Legumes
(Including soybeans, beans and peas)
Safflower

12-Month Plant-Back

All Other Crops

¹ Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

Notification of the crop rotational restrictions must be conveyed to the grower through the distribution of this label on all commercially treated seed.

NOTE: 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 recommended rates.

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

**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 LLC 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 LLC SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. SUBJECT TO APPLICABLE LAW, GUSTAFSON LLC 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 LLC. If these terms are not acceptable, return all products to the place of purchase, unopened for a full refund.

IN CASE OF AN EMERGENCY ENDANGERING
LIFE OR PROPERTY INVOLVING THIS PRODUCT,
CALL (800) 424-9300

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A quality product manufactured for:
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