

2012-03-07  
2010-1275



GROUP 3,7 FUNGICIDE

EMESTO SILVER

FUNGICIDE

FOR SEED-PIECE TREATMENT ON POTATOES

All seed pieces treated with this product must be conspicuously coloured at the time of treatment.

SUSPENSION

COMMERCIAL

GUARANTEE:	Penflufen	100 g/L
	Prothioconazole	18 g/L

Contains 1,2 benzisothiazolin-3-one at 0.03% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

REGISTRATION NO. 30361 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

NET CONTENTS: 1 L - 200 L

Bayer CropScience Inc.  
Suite 200, Quarry Park Blvd. SE  
Calgary, AB T2C 3G3

Product Information: 1-888-283-6847  
[www.bayercropscience.ca](http://www.bayercropscience.ca)

In case of spills, poisoning, or fire, telephone emergency response number 1-800-334-7577  
(24 HOURS A DAY)

EMESTO SILVER is a systemic fungicide for use on potato seed pieces to control certain diseases. EMESTO SILVER is active on seed-borne *Rhizoctonia solani* (black scurf and stem and stolon canker), *Fusarium* spp. (tuber rot) and *Helminthosporium solani* (silver scurf).

#### DIRECTIONS FOR USE:

Refer to the attached booklet for specific use directions for each crop and detailed instructions on rates, diseases controlled, application timing and technique.

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
- Applicators and other handlers, as well as workers handling potato seed pieces treated with EMESTO SILVER, must wear long-sleeved shirt, long pants, shoes plus socks and chemical-resistant gloves.
- Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
- Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

#### FIRST AID:

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

#### ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms and non-target terrestrial plants. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

#### STORAGE:

To prevent contamination store this product away from food or feed. Store in a cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or go below -10°C.

#### DISPOSAL:

##### Recyclable Container Disposal:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

##### Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

#### NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.



GROUP	3, 7	FUNGICIDE
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## EMESTO SILVER

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## GENERAL INFORMATION

### SECTION 1: THE PRODUCT

EMESTO™ SILVER is a systemic fungicide for use on potato seed pieces to control certain diseases. EMESTO SILVER is active on seed-borne *Rhizoctonia solani* (black scurf and stem and stolon canker), *Fusarium* spp. (tuber rot) and *Helminthosporium solani* (silver scurf).

## SAFETY AND HANDLING

### SECTION 2: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.
- Applicators and other handlers, as well as workers handling potato seed pieces treated with EMESTO SILVER, must wear long-sleeved shirt, long pants, shoes plus socks and chemical-resistant gloves.
- Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
- Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist. Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

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### SECTION 3: FIRST AID AND TOXICOLOGICAL INFORMATION

#### FIRST AID:

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

#### SECTION 4: ENVIRONMENTAL HAZARDS

##### ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms and non-target terrestrial plants. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

#### SECTION 5: STORAGE

To prevent contamination store this product away from food or feed. Store in a cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or go below -10°C.

#### SECTION 6: DISPOSAL

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##### Disposal of Unused, Unwanted Product:

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SECTION 7: NOTICE
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DIRECTIONS FOR USE

SECTION 8: PESTS CONTROLLED
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EMESTO SILVER is a systemic fungicide for use on potato seed pieces, to control certain diseases. EMESTO SILVER is active on seed-borne *Rhizoctonia solani* (black scurf and stem and stolon canker), *Fusarium* spp. (tuber rot) and *Helminthosporium solani* (silver scurf).

EMESTO SILVER must be utilized as part of a total integrated approach to disease management. This approach involves the use of cultural, mechanical and, where required, other chemical techniques. These techniques include but are not limited to the use of high quality seed, crop rotation, optimal planting and harvest timing, proper handling of tubers, proper sanitation to reduce inoculum levels and the use of post harvest fungicide applications of alternative chemistries to reduce disease in storage.

EMESTO SILVER does not control bacterial diseases that may be present within the seed.

For added protection against soil-borne *Rhizoctonia solani*, apply a registered in-furrow fungicide in addition to the seed piece application.



## SECTION 9: RECOMMENDED USES

CROP	PEST	DOSAGE	REMARKS
Potato	<p>Seed-borne black scurf and stem and stolon canker caused by <i>Rhizoctonia solani</i></p> <p>Silver scurf caused by <i>Helminthosporium solani</i></p> <p><i>Fusarium</i> tuber rot caused by <i>Fusarium</i> spp.</p>	20 mL/100 kg seed	<p>For optimal disease control, good coverage of the seed piece is required.</p> <p>Apply specified dosage as a diluted spray using equipment that ensures uniform coverage of each seed piece. Apply no more than 150 ml of slurry / 100 kg of seed pieces. Agitate or stir the slurry solution as needed.</p> <p>Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust.</p> <p>It is recommended to periodically clean and sanitize all surfaces which may come in contact with cut seed pieces (i. e. cutting machines, tables, knives, planting equipment etc.).</p> <p>Seed pieces should be treated immediately after cutting. Plant seed-pieces as soon as possible after cutting and treating.</p> <p>Do not use treated seed pieces for food, feed, or fodder.</p> <p>As part of the seed cutting and treating process, application of an absorbent ingredient is recommended to improve suberization.</p>

TANK MIXTURES: EMESTO SILVER may be tank mixed with Titan ST Insecticide for application as a seed piece treatment of potato. Refer to the registered label of each tank-mix partner for application rates, precautions and directions for use associated with those products, and follow of the most restrictive label precautions and limitations.

## SECTION 10: APPLICATION CAUTIONS

Treatment of mechanically damaged, or poor quality or low vigour seed may result in reduced germination, vigour and/or resultant yield. Treatment of sprouted seed which is known to be of poor quality or low vigour may result in reduced germination and/or seedling vigour. Avoid treating excessively sprouted seed. Due to seed quality and storage conditions beyond the control of Bayer

CropScience, no claims are made with regard to germination of potato seed pieces after treatment with EMESTO SILVER.

If cut seed needs to be stored or held for a few days, make sure that there is adequate cool air movement through the pile of cut seed potatoes at relative humidity of 85-90%. Store cut seed at or below 7°C. Temperatures above 10 °C promote soft rot in seed. Cut and treated seed should not be piled above 1.8 m in height.

After cutting, treated seed pieces should be planted in soil above 7°C with adequate soil moisture required for planting.

When transporting EMESTO SILVER treated seed, make sure the seed is covered.

DO NOT apply this product or treated seed pieces directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SECTION 11:	USE LIMITATIONS
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**ROTATIONAL CROPS:**

Potatoes, corn, cereals, legumes, soybean, canola, mustard, rapeseed, borage, flax and crambe may be replanted at any time. For all other crops, do not plant back within 30 days of planting with EMESTO SILVER-treated seed pieces.

SECTION 12:	RESISTANCE MANAGEMENT RECOMMENDATIONS
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For resistance management, please note that EMESTO SILVER contains a Group 3 and 7 fungicide. Any fungal population may contain individuals naturally resistant to EMESTO SILVER and other Group 3 and 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay fungicide//bactericide resistance:

- Where possible, rotate the use of EMESTO SILVER or other products containing a Group 3 or 7 fungicide with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.

- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens. For further information and to report suspected resistance, contact Bayer CropScience representatives at 1-800-334-7577 or at [www.bayercropscience.ca](http://www.bayercropscience.ca).

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