

GROUP	3	12	FUNGICIDE
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MAXIM® D

Potato Seed Protectant

FUNGICIDE

COMMERCIAL

SUSPENSION

Seed piece treatment fungicide for use on potato for the control of black scurf/stem and stolon canker (*Rhizoctonia solani*), silver scurf (*Helminthosporium solani*), and Fusarium dry rot (*Fusarium* spp.)

ACTIVE INGREDIENTS:

Fludioxonil..... 19.4 g/L

Difenoconazole 19.4 g/L

Contains 1,2-benzisothiazolin-3-one at 0.03% as a preservative.

Contains 2-bromo-2-nitropropane-1,3-diol at 0.0012% as a preservative.

READ THE LABEL AND PAMPHLET BEFORE USINGREGISTRATION NO: **30599**
PEST CONTROL PRODUCTS ACTNET CONTENTS: **1 L to 55 L****Syngenta Canada Inc.**
140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IN CASE OF POISONING, call a physician or poison control center **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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.

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Wash hands and face after handling and before eating or smoking. Avoid contamination of feed and foodstuffs. Treated seed must not be used for food, feed or oil processing. Treat seed in a well-ventilated area.

DO NOT use open treating equipment when treating potato seed pieces. This product must be applied using a closed treatment system.

Keep treated potato seed pieces away from animals.

DO NOT use an open cab tractor when planting potato seed pieces treated with MAXIM® D.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT

Wear coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks, boots and chemical resistant gloves during mixing, loading, application, clean-up, and repair.

When handling treated potato seed pieces or when working with or around equipment used to transport or plant treated potato seed pieces, workers must wear a long-sleeved shirt, long pants, gloves, socks, and boots. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

6.0 ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

Treated seed is TOXIC to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil or other surfaces.

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

7.0 STORAGE

Store in original container only. Store in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose containers below freezing or above 30 °C. To prevent contamination, store this product away from food or feed. Rotate stock. Clean up spilled material immediately.

8.0 DISPOSAL

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 clean-up of spills.

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

For Recyclable Containers

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 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

MAXIM® is a trademark of a Syngenta Group Company.

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PEST CONTROL PRODUCTS ACT

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PAMPHLET

TABLE OF CONTENTS

	<u>Section Number</u>
NOTICE TO USER	1.0
FIRST AID	2.0
TOXICOLOGICAL INFORMATION	3.0
PRECAUTIONS.....	4.0
PERSONAL PROTECTIVE EQUIPMENT (PPE).....	5.0
ENVIRONMENTAL HAZARDS	6.0
STORAGE	7.0
DISPOSAL	8.0
PRODUCT INFORMATION	9.0
DIRECTIONS FOR USE	10.0
General Information	10.1
Tank Mixes.....	10.2
Potato See Piece Treatment – Application Procedures	10.3
CROP USE DIRECTIONS	11.0
RESISTANCE MANAGEMENT RECOMMENDATIONS	12.0

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CALL 1-800-327-8633 (FASTMED)**

9.0 PRODUCT INFORMATION

MAXIM D is a potato seed piece treatment fungicide that controls seed-borne diseases of potatoes. MAXIM D is active against black scurf and stem and stolon canker (*Rhizoctonia solani*), silver scurf (*Helminthosporium solani*), and Fusarium dry rot (*Fusarium* spp.). MAXIM D does not control bacterial diseases present within the seed.

MAXIM D is to be used as an integral part of a potato disease management strategy. This strategy includes the use of high quality seed and the incorporation of cultural techniques such as: crop rotation and optimal harvest time for tubers to minimize disease development, proper handling of tubers to avoid unnecessary bruising, management and sanitation of equipment and storage areas to reduce inoculum including avoidance of storage conditions that lead to free moisture or condensation and application of the seed piece treatment to clean seed pieces with a properly calibrated application system.

NOTE: Treatment of highly mechanically scarred, excessively sprouted, bruised, or damaged seed pieces, or seed pieces known to be of low vigor, "physiologically old" (that has multiple sprouts) and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed piece and seedling vigor. Treat a small quantity of seed pieces using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed pieces before committing the total seed lot to a selected seed treatment. Due to seed piece quality and seed piece storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of potato seed pieces.

10.0 DIRECTIONS FOR USE

10.1 General Information

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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

10.2 Tank Mixes

For control of Colorado potato beetle, aphids and potato leafhopper, MAXIM D can be tank mixed with ACTARA® 240SC Insecticide or CRUISER® POTATO Seed Piece Treatment. Refer to the MAXIM D and ACTARA 240SC Insecticide or CRUISER POTATO Seed Piece Treatment product labels for specific application instructions and precautions. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

10.3 Potato Seed Piece Treatment - Application Procedures

Cut seed is particularly vulnerable to excess moisture. Too much moisture will induce seed decay. MAXIM D, ACTARA 240SC Insecticide and CRUISER POTATO Seed Piece Treatment have been designed to be delivered in very low volumes of liquid to ensure good coverage without increasing tuber decay. Do not add excess water to the cut seed.

Store cut seed at or below 7 °C. Temperatures above 10 °C promote soft rot in seed.

Apply only in areas with adequate ventilation or in areas that are equipped to remove mist or dust.

Seed loading onto the belt after cutting should be uniform. Do not overload. If there are several layers of seed under the hood, coverage will be erratic.

Calibrate the output to the actual flow rate. If calibrated properly, there will be no liquid material dripping off of the roller table.

If the treated seed is 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%. Cut and treated seed should not be piled above 1.8 m in height. Best results are obtained if potatoes are planted immediately after MAXIM D is applied to the seed. When transporting MAXIM D or MAXIM D and ACTARA 240SC Insecticide or CRUISER POTATO Seed Piece Treatment treated seed, make sure the seed is covered.

When treating cut seed, MAXIM D can be followed with a dust treatment to improve suberization. The use of a mancozeb dust formulation is recommended to reduce the potential for development of resistance by labeled diseases. This is particularly a concern in seed production where the risk of resistance is increased with consecutive seed generations.

11.0 CROP USE DIRECTIONS

CROPS	Potato Seed Pieces
PEST	Silver scurf (<i>Helminthosporium solani</i>)
RATE	130 mL product/100 kg seed
NOTES	Shake or mix well before using. Apply using standard seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. MAXIM D may be applied undiluted or as a water-based slurry. Do not exceed a maximum slurry volume of 260 mL/100 kg seed. Follow the manufacturer's application instructions for the seed treatment equipment being used.
CROPS	Potato Seed Pieces
PEST	Fusarium dry rot (<i>Fusarium</i> spp.) Black scurf*, stem and stolon canker (<i>Rhizoctonia solani</i>)
RATE	65 -130 mL product/100 kg seed
NOTES	Use the high rate when disease pressure and/or resistance pressure is high. Shake or mix well before using. Apply using standard seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. When applying at a rate of 130 mL/100 kg seed, MAXIM D may be applied undiluted or as a water-based slurry. Do not exceed a maximum slurry volume of 260 mL/100 kg seed. When applying at rates lower than 130 mL of MAXIM D/100 kg seed, add sufficient water to allow for a slurry volume of at least 130 mL/100 kg seed. Do not exceed a maximum slurry volume of 260 mL/100 kg seed. Follow the manufacturer's application instructions for the seed treatment equipment being used. *When applied at 65 mL/100 kg seed, MAXIM D will provide suppression of black scurf. When <i>Rhizoctonia solani</i> pressure is high or control of black scurf is desired, use 130 mL/100 kg seed of MAXIM D or tank mix 65 mL/100 kg seed of MAXIM D with MAXIM Liquid PSP at a rate of 2.6 mL /100 kg seed.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, note that MAXIM D contains Group 3 and Group 12 fungicides. Any fungal population may contain individuals naturally resistant to MAXIM D and other Group 3 or 12 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 resistance:

Where possible rotate the use of MAXIM D or other Group 3 or 12 fungicides with different groups that control the same pathogens.

In order to minimize the potential for the development of resistance among the labeled disease organisms do not use MAXIM D, MAXIM Liquid PSP or MAXIM PSP in any two consecutive seed generations.

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. Implement an integrated disease management program that helps to maintain lower inoculum levels, thereby reducing the probability for the development of resistant *Fusarium* spp. isolates. This includes planting disease free tubers, not growing potatoes in the same field two years in a row and practising good hygiene in the storage bins.

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 or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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