

GROUP	4	INSECTICIDE
GROUP	3 12	FUNGICIDE

CRUISER MAXX[®] POTATO EXTREME

SEED PIECE TREATMENT

SUSPENSION

AGRICULTURAL

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

ACTIVE INGREDIENTS:

Thiamethoxam 250 g/L
 Fludioxonil..... 62.5 g/L
 Difenoconazole 123 g/L

Contains 1,2-benzisothiazolin-3-one at 0.073% and 2-bromo-2-nitropropane-1,3-diol at 0.024% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006% and 2-methyl-4-isothiazolin-3-one at 0.00019% and 2-bromo-2-nitropropane-1,3-diol at 0.024% as preservatives.

**READ THE LABEL AND BOOKLET BEFORE USING
 KEEP OUT OF THE REACH OF CHILDREN**

REGISTRATION NO.: **31024**
 PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1050 L**

For on-farm use only.

Syngenta Canada Inc.
 140 Research Lane, Research Park
 Guelph, Ontario 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

IF POISONING IS SUSPECTED, call a physician or poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical advice.

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 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.

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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote for this product if ingested. Treat symptomatically.

4.0 PRECAUTIONS

Safety Precautions

1. KEEP OUT OF THE REACH OF CHILDREN and animals.
2. Keep treated potato seed pieces away from animals.
3. Wash hands and face after handling and before eating or smoking.
4. DO NOT use open treating equipment when treating potato seed pieces. Use only closed system treatment equipment.
5. Avoid contamination of feed and foodstuffs.
6. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 (PPE)

Wear coveralls over a long-sleeved shirt, long pants, goggles, chemical resistant gloves, socks and boots when mixing and loading and wear long-sleeved shirt, long pants, socks and boots during application. 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. When riding at the back of the planter to monitor planting, workers must wear coveralls over a long-sleeved shirt, long pants, gloves, socks, boots and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. 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 other job activities.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

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.

Wear freshly laundered clothes daily.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to bees, beneficial arthropods and aquatic organisms. Bees can be exposed to product residues in flowers, leaves, pollen and/or nectar resulting from seed treatment applications. When used according to label directions minimal exposure or risk is expected.

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

Do not use treated seed pieces for food and feed purposes.

7.0 USE RESTRICTIONS

All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: "Keep out of reach of children and animals. Treated seed is TOXIC to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface."

8.0 STORAGE

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of CRUISER MAXX POTATO EXTREME will not affect the physical integrity of the product. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

To prevent contamination, store this product away from food or feed.

9.0 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 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 spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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

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Pamphlet

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10.0 PRODUCT INFORMATION

CRUISER MAXX POTATO EXTREME controls listed sucking and chewing insects through ingestion when used on potatoes. This product controls seed-borne diseases of potatoes including stem and stolon canker (*Rhizoctonia solani*), silver scurf (*Helminthosporium solani*), and fusarium dry rot (*Fusarium* spp., including fludioxonil-resistant strains). CRUISER MAXX POTATO EXTREME also suppresses black scurf (*Rhizoctonia solani*). CRUISER MAXX POTATO EXTREME does not control bacterial diseases present within the seed.

CRUISER MAXX POTATO EXTREME 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 sprouted seed known to be of low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. Due to seed quality and seed storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of potato seed pieces.

11.0 DIRECTIONS FOR USE

11.1 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.

11.2 Rotational Restrictions

Treated areas may be replanted immediately following harvest or as soon as practical following the last application with any crop listed on this label or to sorghum, wheat, barley, canola and pome fruit. Any cover crop planted for erosion control or soil improvement may be planted as soon as practical following the last application. However, the cover crop may not be grazed or harvested for food or feed. For all other crops, a 120 day plant-back interval must be observed.

12.0 CROP USE DIRECTIONS

12.1 Potatoes

POTATOES	
CROPS	Potato Seed Pieces
PEST	Colorado potato beetle Aphids (including green peach, potato, buckthorn and foxglove aphid) Potato leafhopper Black scurf (suppression only) and stem and stolon canker (<i>Rhizoctonia solani</i>)* Fusarium dry rot (<i>Fusarium</i> spp. including fludioxonil-resistant strains) Silver scurf (<i>Helminthosporium solani</i>)
RATE	20 mL/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. Follow the manufacturer's application instructions for the seed treatment equipment being used. * CRUISER MAXX POTATO EXTREME should be applied under low to moderate <i>Rhizoctonia</i> pressure. When <i>Rhizoctonia solani</i> pressure is high or for control of black scurf, tank mix CRUISER MAXX POTATO EXTREME with MAXIM® Liquid PSP at a rate of 2.6 mL /100 kg seed.

Apply CRUISER MAXX POTATO EXTREME as a water-based slurry utilizing standard slurry seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect or disease control. Thoroughly mix the specified amount of CRUISER MAXX POTATO EXTREME into the required amount of water or tank mix partner for the slurry treater and dilution rate to be used. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

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

Cut seed is particularly vulnerable to excess moisture. Too much moisture will induce seed decay. CRUISER MAXX POTATO EXTREME has 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.

If soil conditions are ideal, plant potatoes immediately after application; however if soil is predicted to be cold and wet for 3 days following application, either a) wait to cut, treat, plant until conditions are favorable or b) cut, treat and store. If cutting, treating and storing, potatoes can be treated with an inert dust to improve suberization. Store properly until conditions improve by making sure that there is adequate cool air (7-10 °C) movement through the pile of cut seed potatoes and a relative humidity of 85-90%. Temperatures above 10 °C promote soft rot in seed. Cut and treated seed should not be piled above 1.8 m in height. Avoid storing treated potatoes for over 2 weeks. When transporting cut and treated seed make sure the seed is covered.

Avoid using liquid seed treatment on excessively sprouted seed.

DO NOT apply any subsequent application of thiamethoxam in-furrow or foliar application or other group 4 insecticide following seed piece treatment with CRUISER MAXX POTATO

EXTREME.

DO NOT plant more than 128 700 kg of treated potato seed pieces/day. Refer to the following table for the area that can be planted/day by a single planter based on seeding rate and the restriction of 128 700 kg seed pieces/day.

Planting Rate		Planted Area	
kg/ha	lb/ac	ha/day	ac/day
1200	1071	107	265
1400	1249	92	227
1600	1428	80	199
1800	1606	72	177
2000	1784	64	159
2200	1963	59	145
2400	2141	54	133
2600	2320	50	122
2800	2498	46	114
3000	2677	43	106
3200	2855	40	99
3400	3033	38	94

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that CRUISER MAXX POTATO EXTREME contains a Group 4 insecticide (neonicotinoid class of chemistry) and Group 3 and 12 fungicides. Any insect or fungal population may contain individuals naturally resistant to CRUISER MAXX POTATO EXTREME and other Group 4 insecticides or Group 3 and 12 fungicides. A gradual or total loss of pest control may occur over time if these insecticides and fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area.

To delay insecticide and fungicide resistance:

Where possible, rotate the use of CRUISER MAXX POTATO EXTREME with different groups that control the same pests in a field. Use tank mixtures with insecticides and fungicides from different groups when such use is permitted.

Pesticide use should be based on an integrated pest management 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.

In order to minimize the potential for the development of resistance among the labeled disease organisms do not use CRUISER MAXX POTATO EXTREME in any two consecutive seed generations.

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.

Monitor treated pest populations for resistance development.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

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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