

GROUP	4	INSECTICIDE
GROUP	3 7 12	FUNGICIDE

CRUISER MAXX® VIBRANCE® POTATO

SEED PIECE TREATMENT

COMMERCIAL - AGRICULTURAL

SUSPENSION

Seed piece treatment for the control of fungal and insect pests on potatoes.

ACTIVE INGREDIENTS:

Thiamethoxam 154 g/L
Fludioxonil..... 38.4 g/L
Difenoconazole 76.9 g/L
Sedaxane..... 76.9 g/L

Contains 1,2-benzisothiazolin-3-one at 0.012%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006% and 2-methyl-4-isothiazolin-3-one at 0.00019% as preservatives.

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

REGISTRATION NO.: **32009**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 – 1050 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.

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

KEEP OUT OF THE REACH OF CHILDREN AND DOMESTIC ANIMALS.

Wash hands and face after handling and before eating or smoking.

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

DO NOT use open cab planting equipment when planting treated potato seed pieces. Use only closed cab planting equipment. Workers working outside the closed cab must wear coveralls over a long-sleeved shirt, long pants, a dust mask, goggles, chemical resistant gloves, socks and boots.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area when seed is being treated or bagged.

Avoid contamination of feed and foodstuffs.

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 during mixing, loading, clean-up and repair. 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.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

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.

Do not contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

7.0 USE RESTRICTIONS

1. Treated seed must not be used for food, feed or oil processing.
2. Store away from food and feed.
3. Do not plant any crop other than corn, cereals, canola, soybeans, dry beans, dry peas, chickpeas, lentils and potatoes within 120 days to fields in which seed treated with CRUISER MAXX VIBRANCE POTATO were planted.
4. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **“Keep treated seeds out of reach of children and animals. Store this product away from food or feed. 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

To prevent contamination, store this product away from food or feed. Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of CRUISER MAXX VIBRANCE POTATO 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.

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:

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

CRUISER MAXX® and VIBRANCE® are trademarks of a Syngenta Group Company.

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Pamphlet

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10.0 PRODUCT INFORMATION

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

CRUISER MAXX VIBRANCE POTATO 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.

Apply CRUISER MAXX VIBRANCE POTATO 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 VIBRANCE POTATO 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.

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, stem canker and stolon canker (<i>Rhizoctonia solani</i>) Fusarium dry rot (<i>Fusarium</i> spp. including fludioxonil-resistant strains*) Silver scurf (<i>Helminthosporium solani</i>)
APPLICATION METHOD	Seed Treatment
RATE	32.5 mL/100 kg seed
NOTES	Shake or mix well before using. Apply using a Syngenta-approved closed treatment system that provides uniform seed coverage. Contact Syngenta Canada Inc. at 1-877-964-3682 for recommendations regarding closed treatment systems. 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.
RESTRICTIONS	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 VIBRANCE POTATO.

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

Planting Rate		Planted Area	
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

12.2 TANK MIXES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, CRUISER MAXX VIBRANCE POTATO contains a Group 4 insecticide (neonicotinoid class of chemistry) and Group 3, 7 and 12 fungicides. Any insect or fungal population may contain individuals naturally resistant to CRUISER MAXX VIBRANCE POTATO and other Group 4 insecticides or Group 3, 7 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. Appropriate resistance management strategies should be followed.

To delay insecticide and fungicide resistance:

Where possible, rotate the use of CRUISER MAXX VIBRANCE POTATO or other Group 4 insecticides or Group 3, 7 or 12 fungicides with different groups that control the same pathogens or pests.

Use tank mixtures with insecticides and fungicides from a different group that is effective on the target pathogen or pest when such use is permitted.

Insecticide and Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.

Monitor treated pathogen and pest populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen or pest to CRUISER MAXX VIBRANCE POTATO is suspected.

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 VIBRANCE POTATO 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 insecticide or 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 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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