

## MERTECT® SC Fungicide

FUNGICIDE

COMMERCIAL - AGRICULTURAL

Water Dispersible Suspension for the post-harvest control of labelled diseases in labelled crops and seed treatment disease control in soybeans.

**ACTIVE INGREDIENT:**

Thiabendazole ..... 500 g/L

Contains 1,2-dibromo-2,4-dicyanobutane at 0.05% as a preservative or contains bronopol at 0.03% as a preservative.

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

REGISTRATION NO.: **13975**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **5 L**

**This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product.**

**For commercial seed treatment in facilities or with mobile treaters only.**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario  
N1G 4Z3  
Telephone: 1-877-964-3682

Label

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## 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.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED.

For spray or drench applications, workers must wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, treating, clean-up, and repair. Before using MERTECT® SC Fungicide with other chemicals, consult the manufacturer.

For seed treatments, workers must wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, treating, clean-up, maintenance of seed treatment equipment, and bagging, sewing or stacking of bagged treated seed. Wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: This seed has been treated with MERTECT SC Fungicide, containing thiabendazole. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, shoes and socks when handling treated seeds. Do not use for food and feed. Store away from food and feed.

May cause eye irritation. Avoid contact with eyes, skin and clothing. Wash hands, face and arms thoroughly with soap and water after handling and before eating, drinking, smoking, applying cosmetics or using the toilet.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**IMPORTANT:** Prior to treating potatoes destined for export, confirm with the proper authorities that treated potatoes will be allowed entry into the importing country.

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.

## FIRST AID

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 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.

**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.

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Do not store waste piles of treated mushroom compost in an area which will allow runoff into surface waters. DO NOT allow effluent or runoff from mushroom houses containing this product to enter lakes, streams, ponds, or other waters. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans and other waters.

## 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.

### CONTAINER DISPOSAL:

#### **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.

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)***

GROUP 1 FUNGICIDE

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Pamphlet

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## **DIRECTIONS FOR USE**

SHAKE WELL BEFORE USING.

For post-harvest treatment of commodities, apply using mechanical sprayer only. For commercial seed treatment in facilities or with mobile treaters only.

A limit of 500,000 kg potato tubers may be treated per day per worker.

Clean all mixing and application equipment before using MERTECT SC Fungicide. Fill the mixing tank 3/4 full with water and begin mechanical agitation. Add the required amount of MERTECT SC Fungicide and fill the tank to the required level. Do not allow the suspension to stand without continuous agitation. If agitation is halted, stir and re-mix the fungicide suspension and resume agitation before using.

### **DOSAGE RATE - WHOLE POTATOES POST-HARVEST**

For the post-harvest control of storage rots caused by *Fusarium* spp., *Phoma* spp., *Helminthosporium* spp., *Oospora* spp., and *Rhizoctonia* spp., prepare a suspension of 7.5 L of MERTECT SC Fungicide per 170 L of water. Spray 2 L of this suspension per metric tonne of potatoes. Potatoes must rotate along the conveyor line into storage to ensure complete coverage.

### **POME FRUIT (apples and pears)**

For the control of *Penicillium* spp. and *Botrytis cinerea* on apple and pear fruit; dip, flood or spray the harvested fruit with a suspension of 0.5 L of MERTECT SC Fungicide in 500 L of water (a 500 ppm solution). Since the level of disease control in fruit is related to coverage of the fruit surface with the spray solution, the dip method of application is preferred. If using the spray application method, installation of additional spray nozzles at various locations along the conveyor belt may aid in improving spray coverage and hence disease control. The suspension is to be applied as a post-harvest dip or spray without waxing.

## SOYBEANS- SEED TREATMENT USE

SOYBEANS	
<b>PEST</b>	Control of pod and stem blight caused by seed-borne <i>Phomopsis</i> spp.
<b>RATE</b>	2.5 to 5 g ai per 100 kg seed (5 – 10 mL product per 100 kg seed; 0.0038-0.0076 mg ai per seed)
<b>PEST</b>	Control of seed rot, root rot, seedling blight ( <i>Fusarium</i> spp.) and suppression of sudden death syndrome ( <i>Fusarium virguliforme</i> ) in soybean
<b>RATE</b>	5 to 20 g ai per 100 kg seed (10 – 40 mL product per 100 kg seed; 0.0076-0.030 mg ai per seed)
<b>APPLICATION METHOD</b>	Apply as a seed treatment. Dilute with water if needed to achieve improved application coverage to the seed. Use the high rate under higher disease pressure.

### 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.

**READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**CHICORY ROOT**

For the control of Phoma rot in chicory root intended for Belgian endive production only. Apply 80 mL of product in 25 L of water per tonne of roots (40 g ai/ tonne of roots). Apply to fresh roots with minimal field foliage as a post-harvest spray prior to forcing.

DO NOT make more than one application per crop cycle.

DO NOT apply within 35 days of harvest.

**WHITE BUTTON MUSHROOMS**

For the control of Green Mould (*Trichoderma* spp.) and suppression of Dry Bubble (*Verticillium fungicola*) on white button mushrooms. Apply as drench during normal watering operation. Apply at casing. Do not apply more than 255 mL product/100 m<sup>2</sup> per crop.

DO NOT make more than one application. DO NOT make sequential applications of Group 1 (Benzimidazoles) fungicides. If an application of a Group 1 fungicide has already been made to the spawn or casing, use a registered fungicide with a different mode of action before making an application of Mertect SC.

DO NOT apply within 12 hours of harvest.

**Sweet Potato Post Harvest Treatment – Suppression of Black Rot (*Ceratocystis fimbriata*):**

Spray washed roots, on a conveyor line with tumbling action, with 1.31 mL of MERTECT SC per 100 kg of roots in a minimum spray solution of 4 L solution per 1000 kg roots before packing. Ensure roots are dry before packing.

MERTECT SC should be used as part of an Integrated Management Program that includes prevention of wounding during harvest, and maintaining proper sanitation, temperature, and humidity in storage.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management please note that MERTECT SC Fungicide contains a Group 1 fungicide. Any fungal population may contain individuals naturally resistant to MERTECT SC Fungicide and other Group 1 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.

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**To delay fungicide resistance:**

Where possible, rotate the use of MERTECT SC Fungicide or other Group 1 fungicides with different groups that control the same pathogens. If potatoes are going to be treated with MERTECT SC Fungicide prior to storage in the fall, do not use Senator® PSPT or any other product containing thiophanate-methyl at planting.

Do not use Senator PSPT or any other product containing thiophanate-methyl if MERTECT SC Fungicide was used as the storage treatment on the seed. Use a seed treatment with a different mode of action on MERTECT SC Fungicide treated seed potatoes.

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 sign of 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 Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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