

GROUP	<b>12</b>	FUNGICIDE
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**MAXIM® 480FS Colourless  
SEED TREATMENT FUNGICIDE**

AGRICULTURAL

SOLUTION

**SEED TREATMENT FUNGICIDE**

FOR TREATMENT OF A WIDE RANGE OF CROPS GROWN FROM SEED BY  
COMMERCIAL SEED TREATERS ONLY

A seed treatment for the control of listed fungus diseases of a wide range of crops grown from seed.

**ACTIVE INGREDIENT:**

Fludioxonil.....40%

Contains 1,2-benziosothiazolin-3-one at 0.012 % as a preservative or 1,2-benziosothiazolin-3-one at 0.033 % and 2-bromo-2-nitropropane-1,3-diol at 0.024% as preservatives.

**READ THE LABEL AND PAMPHLET BEFORE USING**

REGISTRATION NO: **27001**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to Bulk**

**For use with commercial seed treaters (facilities and mobile treaters). All seed treated with this product must be conspicuously coloured at the time of treatment.**

**This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the “Seeds Act” must be strictly adhered to when using this product. A baby blue colourant must be added when this product is applied to canola/rapeseed. A red colourant must be added when this product is applied to grain.**

**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, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 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 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.

## 3.0 TOXICOLOGICAL INFORMATION

NOTE TO PHYSICIAN: There is no specific antidote for this product if ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically.

## 4.0 PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN AND ANIMALS.** For use with commercial seed treaters (facilities and mobile treaters). May be harmful if swallowed. Avoid inhalation of vapour, spray mist or treated seed dust. 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. Do not use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications at, or immediately before, planting. Treat seed in a well-ventilated area.

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**

When handling MAXIM® 480FS Colourless Seed Treatment Fungicide, contaminated equipment or seed treated with MAXIM 480FS Colourless Seed Treatment Fungicide, wear long-sleeved coveralls over normal work clothing and chemical-resistant gloves. In addition, when bagging or sewing bags of seed treated with MAXIM 480FS Colourless Seed Treatment Fungicide, wear a dust mask.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

This product is TOXIC to 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 apply directly to water, or to areas where surface water is present. In cleaning of equipment or disposing of wastes, do not contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.

## **7.0 USE RESTRICTIONS**

All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: ***“This seed has been treated with fludioxonil fungicide (or fludioxonil and metalaxyl-M fungicide if appropriate). Keep out of reach of children and animals. Do not use for food, feed or oil purposes. Store away from feed and foodstuffs. Do not graze treated crops, or cut for forage, within 30 days of planting. 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.

## **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 Returnable Containers**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

### **For Refillable Containers**

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### **For Recyclable Container:**

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1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
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***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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PAMPHLET

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

## **10.0 PRODUCT INFORMATION**

MAXIM 480FS Colourless Seed Treatment Fungicide is a seed treatment fungicide which controls seed-borne and soil-borne diseases caused by *Fusarium* spp. (including seedling diseases due to *F. graminearum*) and *Rhizoctonia* spp. on listed crops, as well as *Aspergillus* and *Penicillium* on corn (field corn, sweet corn, popcorn), soybean, canola and mustard. MAXIM 480FS Colourless Seed Treatment Fungicide will also control seed rot and seedling blight in soybeans caused by seed-borne *Phomopsis* spp. When rate ranges are given, use the higher rate for crops/cultivars that are expected to be more susceptible to seed-borne or soil-borne pathogens, or when high disease pressures are expected.

MAXIM 480FS Colourless Seed Treatment Fungicide will not control diseases caused by *Pythium* spp. or *Phytophthora* spp. If these diseases are expected to be a problem, MAXIM 480FS Colourless Seed Treatment Fungicide may be mixed with APRON XL<sup>®</sup> LS Fungicide, provided APRON XL LS Fungicide is registered on that crop. To control certain insects in wheat, barley and corn, MAXIM 480FS Colourless Seed Treatment Fungicide can be tank mixed with CRUISER<sup>®</sup> 5FS Seed Treatment or CRUISER 350FS Seed Treatment. For all tank mixes, read and observe all label directions, including rates and restrictions for each product used in the tank mix.

Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels. This product cannot be mixed with any product containing a label prohibition against such mixing.

**Note:** Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small

quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of the seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of carry-over treated seed.

## **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 Mixing Instructions**

Shake or mix well before using.

Apply MAXIM 480FS Colourless Seed Treatment Fungicide as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the recommended amount of MAXIM 480FS Colourless Seed Treatment Fungicide into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Allow the seed to dry before bagging.

Seed treated with MAXIM 480FS Colourless Seed Treatment Fungicide or a combination of MAXIM 480FS Colourless Seed Treatment Fungicide and APRON XL LS Fungicide may not flow through a seed drill at the same rate as untreated seed. Recalibrate the seed drill before planting treated seed.

Ideal storage temperature is above freezing and below 30 °C.

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### **11.3 For Importation of Treated Seeds**

DO NOT treat in Canada.

DO NOT prime, film-coat, encrust and/or pellet small seeded vegetables with fludioxonil in Canada.

<b>For Import Use Only</b>			
<b>Crop</b>	<b>Diseases Controlled</b>	<b>Use Rate Per 100 kg seed</b>	<b>Notes</b>
Beets (garden, sugar) Cauliflower	Seed-borne and soil-borne diseases caused by <i>Fusarium</i> spp. (including seedling disease due to <i>F. graminearum</i> ), <i>Rhizoctonia</i> spp., <i>Aspergillus</i> spp. and <i>Penicillium</i> spp.	5.2 – 10.4 mL	One application as a seed treatment before planting. Do not graze or feed livestock on seeded area for 30 days.
Oriental mustard (oilseed types)	Seed-borne and soil-borne diseases caused by <i>Fusarium</i> spp. (including seedling disease due to <i>F. graminearum</i> ), <i>Rhizoctonia</i> spp., <i>Aspergillus</i> spp. and <i>Penicillium</i> spp.	5.2 – 10.4 mL	One application as a seed treatment before planting. Do not graze or feed livestock on seeded area for 30 days.
Ginseng	Seed borne and soil-borne diseases caused by <i>Fusarium</i> spp. and <i>Rhizoctonia</i> spp. <i>Cylindrocarpon</i> root rot caused by <i>Cylindrocarpon destructans</i>	5.2 – 10.4 mL	One application as a seed treatment before planting (post-stratification). Do not graze or feed livestock on seeded area for 30 days.

#### **11.4 Seed Treatment – Export Use**

FOR TREATMENT OF SEED FOR EXPORT TO COUNTRIES REQUIRING TREATMENT WITH MAXIM 480FS COLOURLESS SEED TREATMENT FUNGICIDE AND APRON XL LS FUNGICIDE BEFORE IMPORTATION. User should verify actual registered rate in country of destination and/or use.

Seed treated in accordance with the export use pattern must be labeled as follows: “TREATED SEED: FOR EXPORT - NOT FOR DOMESTIC SALE OR USE.”

#### **12.0 CROP USE DIRECTIONS**

For treatment of SEEDS only. Not for treating propagating root or tuber material.

For control of seed-borne and soil-borne fungi which cause Seed Decay, Damping-Off and Seedling Blights, apply the following rates of MAXIM 480FS Colourless Seed Treatment Fungicide per 100 kg of seed of the following crops listed.

For control of *Pythium* spp., apply APRON XL LS Fungicide following rates and directions on the label in a mixture with MAXIM 480FS Colourless Seed Treatment Fungicide. Follow all appropriate directions, precautions, etc. on the registered APRON XL LS Fungicide label text.

To control certain insects in wheat, barley and corn, MAXIM 480FS Colourless Seed Treatment Fungicide can be tank mixed with CRUISER 5FS Seed Treatment or CRUISER 350FS Seed Treatment. Consult each label for registered uses and rates and follow all label use instructions for each of the products.

<b>Crops</b>	<b>Use Rate per 100 kg seed</b>
<b>CEREAL GRAINS (INCLUDES FORAGE AND SILAGE)</b>	
Corn (field corn and popcorn), Sweet Corn, Grain Sorghum, Barley, Buckwheat, Millet (pearl and proso), Oats, Rye, Triticale, Wild Rice, and Wheat	5.2 – 10.4 mL
<b>FOLIAGE OF LEGUME VEGETABLES</b>	
Soybean and any cultivar of Bean ( <i>Phaseolus</i> spp.), Field Pea ( <i>Pisum</i> spp.)	5.2 – 10.4 mL
<b>OILSEEDS</b>	
Flax (including Solin), Canola, Mustard, Rapeseed, Safflower, Sunflower	5.2 – 10.4 mL
<b>LEGUME VEGETABLES (SUCCULENT OR DRY)</b>	
Bean ( <i>Lupinus</i> spp. - includes Grain Lupin, Sweet Lupin, and White Lupin), Bean ( <i>Phaseolus</i> spp. - includes Field Bean, Kidney Bean, Lima Bean, Navy Bean, Pinto Bean, Runner Bean, Snap Bean, Tepary Bean, and Wax Bean) Bean ( <i>Vigna</i> spp. - includes Adzuki Bean, Asparagus Bean, Blackeyed Pea, Catjang, Chinese Long Bean, Cowpea, Crowder Pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean and Yardlong Bean) Broad Bean, Chickpea, Guar, Jack Bean, Lablab Bean, Lentils. Pea (dwarf, Edible-pod, English, Field, Garden, Green, Snow, Sugar Snap), Pigeon Pea, Soybean (immature), and Sword Bean	5.2 – 10.4 mL
<b>GRASS FORAGE, FODDER, AND HAY</b>	
All Grasses (including Turf Brass, Bermudagrass, Bluegrass, and Fescue or Bromegrass), All Gramineae family (either green or cured), except those in the Cereal Grains group, that will be fed to or grazed by livestock All pasture and range grasses and grasses grown for hay or silage	5.2 – 10.4 mL
<b>NON-GRASS ANIMAL FEEDS (FORAGE, FODDER, STRAW, AND HAY)</b>	
Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupin, Sainfoin, Trefoil, Vetch, Crown Vetch, Milk Vetch	5.2 – 10.4 mL
<b>ROOT AND TUBER VEGETABLES (grown from seed)</b>	
Artichoke (Chinese and Jerusalem), Burdock (edible), Carrot, Celery Root, Chicory, Ginger, Horseradish, Parsley, Parsnip, Radish (including oriental), Rutabaga, Salsify (oyster plant, black and Spanish), Turnip, Turnip-rooted Chervil, Skirret	5.2 – 10.4 mL
<b>LEAVES OF ROOT AND TUBER VEGETABLES (grown from seed)</b>	
Burdock (edible), Carrot, Cassava, Chicory, Parsnip, Radish (including oriental), Rutabaga, Salsify (black)	5.2 – 10.4 mL
<b>BULB VEGETABLES</b>	
Garlic (including giant), Leek, Onion (dry bulb and green), bunching onion, and Shallot	5.2 – 10.4 mL
<b>LEAFY VEGETABLES EXCEPT BRASSICA</b>	
Amaranth (leafy, chinese spinach, tampala), Celery (including Chinese), Celtuce, Chervil, Corn salad, Cress (garden and upland), Dandelion, Dock, Endive, Fennel (finocchio), Lettuce (head and leaf), Parsley, Purslane (common and winter), Arugula, Cardoon, Chrysanthemum (edible-leaves and garland), Orach, Radicchio, Rhubarb, Spinach (including New Zealand and vine), and Swiss Chard	5.2 – 10.4 mL
<b>BRASSICA (COLE) LEAFY VEGETABLE GROUP</b>	
Broccoli (including chinese and raab), Brussels Sprouts, Cabbage (including Chinese Bok Choy, Chinese nappa, and Chinese Mustard), Collards, Kale, Kohlrabi, Mustard Greens, Mustard Spinach, and Rape Greens, Cavalo Broccolo, Mizuna	5.2 – 10.4 mL
<b>FRUITING VEGETABLES EXCEPT CUCURBITS</b>	
Eggplant, Pepper (includes Bell Pepper, Chili Pepper, Cooking Pepper, Pimento, Sweet Pepper) and Tomato, Groundcherry, Pepino, Tomatillo	5.2 – 10.4 mL
<b>CUCURBIT VEGETABLES</b>	
Chayote (fruit), Chinese Waxgourd, Citron Melon, Cucumber, Gherkin, Gourd Edible (includes Hyotan, Cucuzzi, Hechima, Okra), Momordica, all Muskmelon, Pumpkin, all Squash and Watermelon	5.2 – 10.4 mL

<b>Crops</b>	<b>Use Rate per 100 kg seed</b>
<b>PEANUTS</b>	
Peanuts	5.2 – 10.4 mL
<b>HERBS AND SPICES</b>	
Anise, Anise (star), Basil, Borage, Burnet, Camomile, Caper Buds, Caraway, Black Caraway, Cardamom, Catnip, Celery Seed, Chervil, Chive, Chinese Chive, Clary, Coriander (Chinese Parsley or Cilantro), Costmary, Cilantro (seed), Dill Seed and Dill Weed, Common Fennel and Florence Fennel, Horehound, Hyssop, Lavender, Lemon Grass, Lovage, Lovage Seed, Marigold, Marjoram, Mustard (seed), Nasturtium, Parsley (dried), Pennyroyal, Pepper (black and white), Poppy seed, Rosemary, Rue, Sage, Tansy, Tarragon, Thyme, Wintergreen, Sweet Woodruff, Wormwood	5.2 – 10.4 mL

### 13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, note that MAXIM 480FS Colourless Seed Treatment Fungicide contains a Group 12 fungicide. Any fungal population may contain individuals naturally resistant to MAXIM 480FS Colourless Seed Treatment Fungicide and other Group 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 480FS Colourless Seed Treatment Fungicide or other Group 12 fungicides 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 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.

Where possible, make use of predictive disease models to effectively time fungicide applications.

Monitor treated fungal populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to MAXIM 480FS Colourless Seed Treatment Fungicide is suspected.

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 Syngenta company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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