

GROUP	11	FUNGICIDE
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DYNASTY[®] 100FS FUNGICIDE

FUNGICIDE

SUSPENSION

AGRICULTURAL

Broad-spectrum seed treatment fungicide for control of seed- and soil-borne diseases on labelled crops.

GUARANTEE:

Azoxystrobin 100 g/L

Contains 1,2-benzisothiazolin-3-one at 0.04 % as a preservative or contains 1,2-benzisothiazolin-3-one at 0.04%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00056% and 2-methyl-4-isothiazolin-3-one at 0.00019% as preservatives.

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

All seed treated with this product must be conspicuously coloured at the time of treatment.

REGISTRATION NO: **28394**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 450 L, Bulk**

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

LABEL

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.

FIRST AID

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

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 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 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.

TOXICOLOGICAL INFORMATION

No specific symptoms are known for this product. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN and DOMESTIC ANIMALS. Harmful if swallowed, inhaled or absorbed through skin. **DO NOT** get in eyes. Avoid prolonged contact with skin. Avoid inhalation of vapours, spray mist or treated seed dust. Wash hands and face after handling and before eating, using tobacco (including smoking), applying cosmetics, or using the toilet. Wear a dust mask when transferring seed to a storage bin. Avoid contamination of feed and foodstuffs.

Workers who clean-up, maintain or repair seed treating equipment:

Wear coveralls over long sleeve shirt and long pants, and chemical-resistant gloves. For good hygiene practice, it is also recommended that cleaners wear a dust mask.

Workers who treat:

Wear long sleeve shirt, long pants, and chemical-resistant gloves.

Workers who bag, sew, stack or drive the forklift:

Wear long sleeve shirt, long pants, and gloves.

When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations 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.

Environmental Precautions:

This product is toxic to aquatic organisms.

Keep this product out of freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries and marine habitats. DO NOT apply directly to aquatic habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (i.e. sandy soil) and/or the depth to the water table is shallow.

Use Restrictions:

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.

All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: ***“This seed has been treated with azoxystrobin fungicide. Use gloves when handling treated seed. Do not graze or feed livestock on seeded area for four weeks after planting. Do not use for food, feed or oil processing. Store away from food and feed.”***

All bags containing treated seed for export must be labeled or tagged as follows: ***“FOR EXPORT ONLY - NOT FOR DOMESTIC SALE OR USE IN CANADA. This seed has been treated with azoxystrobin fungicide. Use gloves when handling treated seed. Do not use for food, feed or oil processing. Store away from food and feed.”*** For treatment of seed for export, the applicator should verify actual registered rate in country of destination and/or use before exportation.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada’s website at www.croplife.ca.

STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. Do not store at temperatures less than 0 °C.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Syngenta Crop Protection Canada, Inc. (see EMERGENCY NUMBER) for further information.

For spills and leaks - contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

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/DECONTAMINATION:

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:

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 reuse 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 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)***

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PAMPHLET

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Environmental Precautions:

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Treated seed must not be used for food, feed or oil processing.

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All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: ***“This seed has been treated with azoxystrobin fungicide. Use gloves when handling treated seed. Do not graze or feed livestock on seeded area for four weeks after planting. Do not use for food, feed or oil processing. Store away from food and feed.”***

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STORAGE

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SPILL CLEANUP

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

PRODUCT INFORMATION

DYNASTY 100FS Fungicide is a broad spectrum, preventative seed treatment fungicide with systemic properties recommended for the control of labeled diseases. DYNASTY 100FS Fungicide mixes easily with water. When mixing with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test; mixing all intended seed treatments with the appropriate amount of water in a clear glass container, mix well, and allow to sit for one hour. Remix and observe for incompatibility.

DYNASTY 100FS Fungicide may be applied as a seed treatment following the guidelines specified in the Directions for Use section of this label. Apply DYNASTY 100FS 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 DYNASTY 100FS 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 seed treatment process. Allow the seed to dry before bagging.

Depending on planting equipment, seed treated with DYNASTY 100FS Fungicide or a combination of DYNASTY 100FS Fungicide and other seed treatment products may not flow through planting equipment at the same rate as untreated seed. Recalibrate this equipment before planting treated seed. Observe all precautions, limitations, rates, and directions for use on the respective labels for other seed treatment products before applying.

This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product.

Note: Treatment of scarred or damaged seed or seed known to be of low vigour and poor quality 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 Crop Protection Canada, Inc., no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed.

USE RATES

Corn (Field Corn, Seed Corn, Popcorn, Sweet Corn):

For control of labelled seed- and soil-borne pathogens, apply DYNASTY 100FS Fungicide at 10 mL/100 kg of seed (or 0.0025 mg of active ingredient per kernel). For additional disease control, DYNASTY 100FS Fungicide may be mixed with MAXIM XL[®] Seed Treatment Fungicide. DYNASTY 100FS Fungicide may be mixed with CRUISER[®] 5FS Insecticide for control of the labeled insects in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipments only. Follow all appropriate directions, precautions, etc. as specified on product labels.

Canola:

For control of labelled seed- and soil-borne pathogens, apply DYNASTY 100FS Fungicide at 100 – 200 mL/100 kg of seed (10 – 20 g of active ingredient per 100 kg of seed). Use the lower rate under normal field conditions. Use the higher rate if there is a history of high disease pressures in the field

and/or field conditions favour seed- and soil-borne pathogens.

For additional disease control and control of labeled insects, DYNASTY 100FS Fungicide may be mixed with HELIX[®] Liquid Seed Treatment or HELIX XTra[®] Seed Treatment in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating and closed treatment equipments only. Follow all appropriate directions, precautions, etc. as specified on product labels.

Soybeans:

For control of labelled seed- and soil-borne pathogens, apply DYNASTY 100FS Fungicide at 10 – 20 mL/100 kg of seed (or 0.0015 – 0.0030 mg of active ingredient per seed). Use the lower rate under normal field conditions. Use the higher rate if there is a history of high disease pressures in the field and/or field conditions favour seed- and soil-borne pathogens.

For additional disease control, DYNASTY 100FS Fungicide may be mixed with APRON MAXX RTA[®] or APRON MAXX RFC[®] Seed Treatment Fungicide (or MAXIM[®] 480FS Colourless Seed Treatment Fungicide + APRON XL[®] LS Fungicide). For protection from various insects, DYNASTY 100FS Fungicide may be mixed with CRUISER 5FS or 350FS Seed Treatment Insecticides in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipments only. For combined protection from labelled insect and soil- and seed-borne pathogens, DYNASTY 100FS Fungicide may be mixed with CRUISER MAXX[®] Beans Seed Treatment under the same “closed system” conditions as noted above. Follow all appropriate directions, precautions, etc. as specified on the respective product labels.

DIRECTIONS FOR USE

Crop	Diseases Controlled	Use Rate/100 kg seed		Notes
		mL product	grams a.i.	
Corn (field, pop, sweet, seed)	Seed decay, damping-off and seedling blight caused by <i>Pythium</i> spp. Seed decay and damping-off caused by <i>Rhizoctonia</i>	10	1 or 0.0025 mg a.i. per kernel	For additional disease control, use DYNASTY 100FS in combination with labelled rates of MAXIM XL. DYNASTY 100FS may also be tank mixed with CRUISER 5FS Insecticide for control of the labelled insects. Observe all precautions, limitations, rates, and directions for use on the respective labels before applying.
Canola	Seed decay, damping-off and seedling blight caused by <i>Rhizoctonia solani</i>	100 – 200	10 – 20	For additional disease control and control of labeled insects, DYNASTY 100FS Fungicide may be mixed with HELIX Liquid Seed Treatment or HELIX XTra Seed Treatment in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating and closed treatment equipments only. Follow all appropriate directions, precautions, etc. as specified on product labels.

Crop	Diseases Controlled	Use Rate/100 kg seed		Notes
		mL product	grams a.i.	
Soybean	Seed decay, damping-off and seedling blight caused by <i>Rhizoctonia</i> spp.	10 – 20	1 – 2 or 0.0015 – 0.0030 mg per seed	<p>For additional disease control, DYNASTY 100FS Fungicide may be mixed with APRON MAXX RTA or APRON MAXX RFC Seed Treatment Fungicide (or MAXIM 480FS Colourless Seed Treatment Fungicide + APRON XL LS Fungicide).</p> <p>For protection from various insects, DYNASTY 100FS Fungicide may be mixed with CRUISER 5FS or 350FS Seed Treatment Insecticides in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipments only.</p> <p>For combined protection from labelled insect and soil- and seed-borne pathogens, DYNASTY 100FS Fungicide may be mixed with CRUISER MAXX Beans Seed Treatment under the same “closed system” conditions as noted above. Follow all appropriate directions, precautions, etc. as specified on the respective product labels.</p>

NOTE TO USER: READ THE FOLLWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to phytotoxicity and crop tolerance arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

Crop	Diseases Controlled	Use Rate per 100 kg seed		Notes
		mL product	grams a.i.	
<p>Dry Beans - Dried cultivar of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and sweet white lupin); (<i>Vigna</i> spp.) (includes adzuki beans); (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean, mung bean, rice bean, southern bean, urd bean); broad bean (dry); chickpea; lablab bean.</p>	<p>Anthrachnose caused by seed-borne <i>Colletotrichum lindemuthianum</i></p> <p>Seed rot/pre-emergence damping-off, post-emergence damping-off, and seedling root rot caused by <i>Rhizoctonia solani</i></p>	10	1	<p>One application as a seed treatment.</p> <p>For additional disease control, DYNASTY 100FS Fungicide may be mixed with APRON MAXX RTA or APRON MAXX RFC Seed Treatment Fungicide. For protection from various insects, DYNASTY 100FS Fungicide may be mixed with CRUISER 5FS for control of the labeled insects.</p> <p>For combined protection from labelled insect and soil- and seed-borne pathogens, DYNASTY 100FS Fungicide may be mixed with CRUISER MAXX® Beans Seed Treatment. Follow all appropriate directions, precautions, etc. as specified on the respective product labels.</p>

IMPORT USES**For Import Uses Only – Not for Domestic Commercial or On-Farm Treatment****Do not plant treated seed by hand.**

Crop	Diseases Controlled	Use Rate per 100 kg seed		Notes
		mL product	grams a.i.	
Sunflowers	Seed rot/pre-emergence damping-off caused by <i>Rhizoctonia solani</i> Suppression of downy mildew caused by <i>Plasmopora halstedii</i>	245	24.5	One application as a seed treatment. For additional disease control, DYNASTY 100FS Fungicide may be used in combination with labeled rates of MAXIM 480FS Colourless Seed Treatment and APRON XL LS Fungicide. Do not plant any crop other than those listed on the DYNASTY 100FS Fungicide label within 30 days to fields in which treated seeds were planted.
Crop Group 1A/1B (Root Vegetables, except ginseng): Burdock, Carrot, Celeriac, Chervil (turnip-rooted), Chicory, Garden beet, Horseradish, Oriental radish (daikon), Parsley (turnip-rooted), Parsnip, Radish, Rutabaga, Salsify (oyster plant), Skirret, Sugar beet, Turnip.	Seed rot/pre-emergence damping-off caused by <i>Rhizoctonia solani</i>	25 – 50	2.5 – 5	Do not plant any crop other than those listed on the DYNASTY 100FS label within 30 days to fields in which treated seeds were planted
Crop Group 3-07 (Bulb Vegetables): Garlic, Great-headed garlic (elephant), Leek, Onion (dry bulb), Green Onion, Welch Onion, Shallot				

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Crop	Diseases Controlled	Use Rate per 100 kg seed		Notes
		mL product	grams a.i.	
Crop Group 4 (Leafy Vegetables): Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula, Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible-leaved and garland), Corn salad, Garden Cress, Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Fennel, Florence (finochio), Lettuce (head and leaf), Orach, Parsley, Garden Purslane, Winter Purslane, Radicchio (red chicory), Rhubarb, Spinach, New Zealand Spinach, Vine Spinach (Malabar spinach, Indian spinach), Swiss chard	Seed rot/pre-emergence damping-off caused by <i>Rhizoctonia solani</i>	25 – 50	2.5 – 5	Do not plant any crop other than those listed on the DYNASTY 100FS label within 30 days to fields in which treated seeds were planted
Crop Group 5 (Brassica Leafy Vegetables): Broccoli, Chinese Broccoli (gai lon), Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese Cabbage (bok choy), Chinese Cabbage (napa), Chinese Cabbage (gai choy), Cauliflower, Cavolo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens				

IMPORT USES**For Import Uses Only – Not for Domestic Commercial or On-Farm Treatment**

Crop	Diseases Controlled	Use Rate per 100 kg seed		Notes
		mL product	grams a.i.	
Crop Group 8-09 (Fruiting Vegetables): Eggplant, Groundcherry, Pepino, Pepper (bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato	Seed rot/pre-emergence damping-off caused by <i>Rhizoctonia solani</i>	25 – 50	2.5 – 5	Do not plant any crop other than those listed on the DYNASTY 100FS label within 30 days to fields in which treated seeds were planted
Crop Group 9 (Cucurbit Vegetables): Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Edible Gourd (hyotan, cucuzza, hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon, Pumpkin, Summer Squash, Winter Squash, Watermelon				

Resistance Management Recommendations

For resistance management, DYNASTY 100FS Fungicide contains azoxystrobin, a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to DYNASTY 100FS Fungicide and other Group 11 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 DYNASTY 100FS Fungicide or other Group 11 fungicides with different groups that control the same pathogens.

DYNASTY 100FS Fungicide is a strobilurin fungicide; therefore, continuous or sequential use of strobilurin fungicide within or during successive growing seasons must be avoided or reduced. DYNASTY 100FS Fungicide is not cross-resistant with other classes of fungicide that have different modes of action.

Seed treatment 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.

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 disease problems in your area.

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

Product names marked ® or ™ are registered trademarks of a Syngenta Group Company

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