

100-1159

11/25/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

— NOV 25 2009

Patrick McCain  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Subject: Dynasty® Fungicide  
EPA Registration Number 100-1159  
Decision D401489: Your label amendment application dated October 15, 2008, adding seed treatment use on Head and Stem Brassica Vegetables and Sorghum and modifying the disposal statements per PR Notice 2007-4

Dear Mr. McCain,

The amended master label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable, provided that you comply with the following conditions.

1. Make the following changes to the label.

a. In the second to the last sentence in the first paragraph in the "GENERAL INFORMATION" section on page 6 change "No label dosage must be exceeded..." to "No label dosage may be exceeded...".

b. In the third sentence in the paragraph in the "RESISTANCE MANAGEMENT" section on page 6 change "...must first be tested so that the slurry treatment is..." to "...must first be tested to ensure that the slurry treatment is...".

c. In the second bulleted item in the "If swallowed" subsection of the "FIRST AID" section on both page 2 and page 23 change "Have a person sip a glass of water..." to "Have the person sip a glass of water...".

d. At the end of the "STORAGE AND DISPOSAL" section in the Container Label section of the subject label on page 24 add the following text (which is present in the "STORAGE AND DISPOSAL" section in the Master Booklet section of the subject label on page 20).

"For Bulk and Minibulk Containers:

"Residue Removal [capacities greater than 5 gallons]

"Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."

e. After the last paragraph (the "Note:" paragraph) on page 7 add the following material.

"The Federal Seed Act requires that containers containing treated seeds shall be labeled with the following statements:

- This seed has been treated with Azoxystrobin seed treatment.
- Do not use treated seed for feed, food, or oil purposes.

The U.S. Environmental Protection Agency requires the following statements on containers containing seed treated with Azoxystrobin.

- Store treated seed away from food and feedstuffs.
- Do not allow children, pets or livestock to have access to treated seeds.
- Wear long pants, long-sleeved shirt and protective gloves when handling treated seed.

- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate bodies of water when disposing of planting equipment wash water.
- Dispose of seed packaging or containers in accordance with local requirements."

2. Satisfy the following data requirement by the stated time.

Submit a satisfactory Immunotoxicity (Guideline Requirement Number 870.7800) study of Azoxystrobin by no later than September 30, 2011. Please feel free to contact us about study design prior to commencement of the study.

3. Submit one copy of your final printed labeling before you release the product for shipment.

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,



Shaja Joyner  
 Product Manager (20)  
 Fungicide Branch  
 Registration Division (7505P)

Attachments: Master label stamped "ACCEPTED with COMMENTS"  
 Four HED reviews and assessments  
 Two EFED assessments



<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

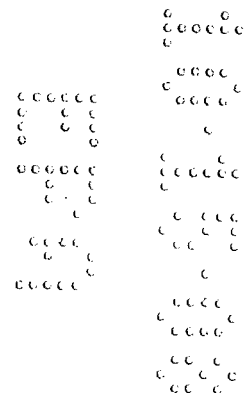
**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.



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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, INC. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notifications to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.** Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**



**TREATMENT OF HIGHLY MECHANICALLY DAMAGED SEED, OR SEED OF KNOWN LOW VIGOR AND POOR QUALITY, MAY RESULT IN REDUCED GERMINATION AND/OR REDUCTION OF SEED AND SEEDLING VIGOR. TREAT AND CONDUCT GERMINATION TEST ON A SMALL PORTION OF SEED BEFORE COMMITTING THE TOTAL SEED LOT TO A SELECTED CHEMICAL TREATMENT. DUE TO SEED QUALITY CONDITIONS BEYOND THE CONTROL OF SYNGENTA CROP PROTECTION, NO CLAIMS ARE MADE TO GUARANTEE GERMINATION OF CARRY-OVER SEED.**

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#### **GENERAL INFORMATION**

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Dynasty is a broad spectrum, preventative seed treatment fungicide with systemic properties recommended for the control of many important plant diseases. Dynasty may be applied in tank mixes, or sequentially with other registered, crop protection products. If using Dynasty in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix partner label. No label dosage must be exceeded and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product which prohibits such mixing.

All applications must be made according to the use directions that follow. Apply Dynasty as a seed treatment following the guidelines specified in the Directions for Use section of this label. If a rate range is specified, use higher rates of Dynasty when the disease pressure is expected to be high.

It is recommended that Dynasty be combined with a Pythium-active seed treatment such as Apron XL® to offer broad spectrum protection against the seed and seedling disease complex (*Rhizoctonia* spp. and *Pythium* spp.).

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#### **RESISTANCE MANAGEMENT**

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Dynasty seed treatment fungicide must be used in accordance with set guidelines for preventing build-up of resistance. When available, other registered seed treatment fungicides that have a different mode of action than strobilurins must be tank mixed with Dynasty. However, these tank mixes must be first tested so that the slurry treatment is safe on the stored or planted seed. Dynasty is a strobilurin fungicide, therefore continuous or sequential use of a strobilurin fungicide, within or during successive growing seasons must be avoided or reduced. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Dynasty is not cross-resistant with other classes of fungicide which have different modes of action.

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**MIXING INSTRUCTIONS**

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Apply Dynasty as a water-based slurry using seed treatment application equipment that will provide uniform coverage on the seed surface. Consult the manufacturer of the application equipment being used for calibration and operation procedures.

Dynasty mixes easily with water and other water-based seed treatments manufactured by Syngenta. When mixing with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test: Mix 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.

Mixing Dynasty With Tank-Mix Partners: Add ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. If using wettable powders add them first to clean water allowing them to completely disperse prior adding Dynasty or other products. Allow each tank-mix partner to completely disperse before adding the next product. Add the remaining amount of water and agitate. Maintain agitation until the entire slurry mixture has been used. Allow seed to dry prior to bagging.

**Note:** Federal law requires that bags of treated seeds shall be labeled with the following information. "This seed has been treated with azoxystrobin fungicide. Do not use for food, feed or oil purposes. Store away from food and feedstuffs." Use with an EPA-approved dye that imparts an unnatural color to the seed.

**DIRECTIONS FOR USE**

Crop	Target Diseases	Use Rate			Remarks
		fl. oz./ 100 lbs. seed	fl. oz./ 80,000 kernel count*	mg active ingredient per kernel**	
Corn Field Pop Sweet (Includes Seed Production)	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight	0.1-3.75	0.045 to 1.687	0.0016 to 0.0612	For optimum Pythium disease control, use Dynasty in combination with labeled rates of Maxim® 4FS, Maxim XL, and Apron XL products. Observe all precautions, limitations, rates, and directions for use on the respective labels before applying.
	Seedling damping-off ( <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp., <i>Pythium</i> spp.)				
Sunflower	Downy mildew ( <i>Plasmopora halstedii</i> )	3.75-37.5	--	0.025-0.25	For suppression of downy mildew.
	Seedling damping-off ( <i>Rhizoctonia solani</i> )				

\* Based on 80,000 kernels of corn weighing 45 pounds.

\*\* Based on 1,777 corn seeds per pound.

Based on 4,500 sunflower seeds per pound.

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
Barley	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
<b>Brassica</b> Leafy Greens subgroup Broccoli raab Cabbage, Chinese Collards Kale Mizuna Mustard greens Mustard spinach Rape greens  Head and Stem subgroup Broccoli Brussels sprouts Cabbage Cauliflower Cavolo broccolo Chinese broccoli Chinese cabbage (napa) Chinese mustard cabbage Kohlrabi	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
<b>Bulb Vegetables</b> Garlic Leek Onion, bulb Onion, green Welch onion Shallot	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
Canola	Seed-borne Blackleg ( <i>Phoma lingam</i> )  Seedling Rhizoctonia  Damping-off ( <i>Rhizoctonia solani</i> )  Alternaria Seedling Blight ( <i>Alternaria</i> spp.)	0.10-3.75	
Cotton	Seedling damping-off ( <i>Rhizoctonia solani</i> )  Pythium seedling blight ( <i>Pythium aphanidermatum</i> )	0.10-3.75	Where appropriate use Dynasty in combination with Apron XL and/or Maxim 4FS.
<b>Cucurbits</b> Cantaloupe	Seed-borne and soil-borne fungi causing decay,	0.10-3.75	

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
Chayote Chinese waxgourd Cucumber Gourds Honeydew Melons <i>Momordica</i> spp. (bitter melon, balsam apple) Muskmelon Watermelon Pumpkin Squash Zucchini (Including cultivars and/or hybrids of these)	damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )		
<b>Leafy Vegetables</b> Amaranth Arugula Cardoon Celery Celtuce Chervil Chrysanthemum, edible Coriander, leaves (Cilantro) Corn salad Cress Dandelion Dock Endive Fennel Lettuce, head and leaf Orach Parsley Purslane Radicchio Rhubarb Spinach Swiss Chard (Including cultivars and/or hybrids of these)	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
<p><b>Legume Vegetables</b>                      Bean (<i>Lupinus</i> spp.)                      (includes grain lupin, sweet lupin, white lupin, and white sweet lupin)                      Bean (<i>Phaseolus</i> spp.)                      (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)                      Bean (<i>Vigna</i> spp.)                      (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean)                      Broad bean (fava bean) (<i>Vicia faba</i>)                      Chickpea (garbanzo bean) (<i>Cicer arietinum</i>)                      Guar (<i>Cyamopsis tetragonoloba</i>)                      Jackbean (<i>Canavalia ensiformis</i>)                      Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>)                      Lentil (<i>Lens esculenta</i>)                      Pea (<i>Pisum</i> spp.)                      (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea, Pigeon pea (<i>Cajanus cajan</i>), Sword bean (<i>Canavalia gladiata</i>)</p> <p>For soybeans, see <i>Soybean</i> section for specific use directions.</p>	<p>Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight</p> <p>Seedling damping-off (<i>Rhizoctonia solani</i>)</p>	<p>0.10-3.75</p>	
<p><b>Peanut</b></p>	<p>Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight</p> <p>Seedling damping-off (<i>Rhizoctonia solani</i>)</p> <p>Aspergillus Crown Rot (<i>Aspergillus niger</i>)</p> <p>White Mold/Stem Rot (<i>Sclerotium rolfsii</i>)</p>	<p>0.10-3.75</p>	<p>For suppression of Aspergillus Crown Rot and White Mold/Stem Rot.</p>
<p><b>Pepper</b>                      Bell Pepper                      Non-Bell Pepper                      Sweet Non-Bell Pepper</p> <p><b>Eggplant</b></p> <p><b>Okra</b></p>	<p>Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight</p> <p>Seedling damping-off (<i>Rhizoctonia solani</i>)</p>	<p>0.10-3.75</p>	

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
Potatoes	Black Scurf & Stem Canker ( <i>Rhizoctonia solani</i> )  Silver Scurf ( <i>Helminthosporium solani</i> )  Black Dot ( <i>Colletotrichum coccodes</i> )	0.10-3.75	For suppression of black scurf and stem canker and seed-borne black dot and for protection against silver scurf.
Rice	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling Damping-Off ( <i>Rhizoctonia solani</i> ) ( <i>Alternaria</i> spp.) ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> )  Brown Spot ( <i>Bipolaris oryzae</i> )  Rice Blast ( <i>Pyricularia grisea</i> )	0.153-1.53	Where appropriate use Dynasty in combination with Apron XL and/or Maxim 4FS.  For early season protection against seed-borne disease and early season rice blast.
Sorghum	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp., <i>Pythium</i> spp.)	1.54-3.08  Or  0.0031-0.0062 mg ai/seed, (based on 14,500 seeds/lb.)	Where appropriate use Dynasty in combination with Apron XL and/or Maxim 4FS.
Soybeans	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> , <i>Pythium</i> spp.)  White Mold ( <i>Sclerotium rolfsii</i> )	0.153-0.459	For suppression of white mold.
Tomatoes	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
<b>Vegetables, leaves of root and tuber group</b> Beet, garden and sugar Burdock Carrot Cassava, bitter and sweet Celeriac (celery root) Chervil, turnip-rooted Chicory Dasheen (taro) Parsnip Radish Radish, oriental (daikon) Rutabaga Salsify, black Sweet potato Tanier Turnip Yam, true	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
<b>Vegetables, root subgroup</b> Beet, garden and sugar Burdock Carrot Celeriac Chervil, turnip-rooted Chicory Ginseng Horseradish Parsley, turnip-rooted Parsnip Radish Radish, oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	



Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
<b>Vegetables, tuberous and corm subgroup</b> Arracacha Arrowroot Artichoke, Chinese and Jerusalem Canna Cassava, edible, bitter and sweet Chayote (root) Chufa Dasheen (Taro) Ginger Leren Sweet Potato Tanier Turmeric Yam, bean Yam, true	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
<b>Watercress</b>	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	
<b>Wheat</b>  <b>Triticale</b>	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )  Dwarf Bunt  Common Bunt	0.10-3.75	For protection against common bunt and partial control of dwarf bunt.  Where appropriate use Dynasty in combination with Dividend Extreme™ and/or Maxim 4FS and Maxim XL.
<b>Ornamental Seed (Including crops listed in Table 1)</b>	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	For early season protection against seed-borne disease and Rhizoctonia damping-off.
<b>Turfgrass (Including bentgrass, bluegrass, bermudagrass, fescues grown for turf)</b>	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	For early season protection against seed-borne disease and Rhizoctonia damping-off.

Crop	Target Diseases	Use Rate fl. oz. product/ 100 lbs. seed	Remarks
Bulbs, Corms, and Tubers of Ornamental Flowers and Foliage Plants	Seed-borne and soil-borne fungi causing decay, damping-off, and seedling blight  Seedling damping-off ( <i>Rhizoctonia solani</i> )	0.10-3.75	For early season protection against seed-borne disease and <i>Rhizoctonia</i> damping-off.

**PLANT SAFETY:** Dynasty has been shown to be safe when applied to the ornamental plants listed in Table 1. However, due to the large number of genera, species and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to Dynasty. Neither the manufacturer nor the seller has determined whether or not Dynasty can be used safely on genera, species, or varieties of ornamental and nursery plants not specified on this label. The professional user should conduct small scale testing to ensure plant safety prior to broadscale commercial use on plant genera and species not listed in this label.

TABLE 1. Plants listed by Common Name.\*

COMMON NAME	BOTANICAL NAME
Abelia	<i>Abelia</i> spp.
Andromeda, Japanese	<i>Pieris japonica</i>
Arborvitae	<i>Thuja</i> spp.
Aspen Trees	<i>Populus</i> spp.
Aster	<i>Aster</i> spp.
Aucuba, Japanese	<i>Aucuba japonica</i>
Azalea, Glacier	<i>Rhododendron</i> spp.
Azaleas	<i>Rhododendron</i> spp.
Balsam	<i>Impatiens</i> spp.
Barberry	<i>Berberis thunbergii</i>
Begonia (except Rieger begonia)	<i>Begonia</i> spp.
Birch, River	<i>Betula nigra</i>
Black-Eyed Susan	<i>Rudbeckia hirta</i>
Blanket-Flower	<i>Gaillardia</i> spp.
Bougainvillea	<i>Bougainvillea</i> spp.
Boxwood	<i>Buxus sempervirens</i>
Buddleia	<i>Buddleia davidii</i>
Bugle	<i>Ajuga reptans</i>
Bugleweed	<i>Ajuga reptans</i>
Burning Bush	<i>Euonymus alatus</i>
Butterfly Bush	<i>Buddleia davidii</i>
Cactus, Holiday	<i>Schlumbergera</i>
Caladium	<i>Caladium</i> spp.
Camellia	<i>Camellia japonica</i>
Carnation	<i>Dianthus caryophyllus</i>
Ceanothus	<i>Ceanothus</i> spp.
Cedar, Atlas	<i>Cedrus atlantica</i>
Cedar, Red	<i>Juniperus virginiana</i>
Cedar, White	<i>Cedrus</i> spp.
Christmas Trees	See Fraser fir, Scotch pine and Douglas fir
Chrysanthemum	<i>Chrysanthemum</i> spp.
Cinquefoil	<i>Potentilla</i> spp.
Clethra	<i>Clethra alnifolia</i>
Coleus	<i>Plectranthus</i> spp.
Cotoneaster, Creeping	<i>Cotoneaster adpressus</i>
Cotoneaster, Variegated Rockspray	<i>Cotoneaster horizontalis</i>
Cranesbill	<i>Geranium</i> spp.
Crapemyrtle	<i>Lagerstroemia indica</i>
Cyclamen	<i>Cyclamen</i> spp.
Cyperus	<i>Cyperus</i> spp.

COMMON NAME	BOTANICAL NAME
Cypress, Sawara	<i>Chamaecyparis pisifera</i>
Cypress, Leyland	<i>Chamaecyparis</i> spp.
Daisy, Gerber	<i>Gerbera jamesonii</i>
Daisy, Transvaal	<i>Gerbera jamesonii</i>
Dogwood	<i>Cornus</i> spp.
Dogwood	<i>Cornus florida</i>
Dogwood, Pink	<i>Cornus</i> spp.
Dumb-Cane	<i>Dieffenbachia</i> spp.
Euonymus, Dwarf Winged	<i>Euonymus alata</i>
Euonymus, Evergreen	<i>Euonymus japonicus</i>
Evergreen, Chinese	<i>Aglaonema</i> spp.
Fatsia, Japanese	<i>Fatsia japonica</i>
Fig	<i>Ficus</i> spp.
Fir, Douglas	<i>Pseudotsuga</i> spp.
Fir, Fraser	<i>Abies fraseri</i>
Floss-Flower	<i>Ageratum</i> spp.
Forsythia	<i>Forsythia viridissima</i>
Foxglove	<i>Digitalis</i> spp.
Gardenia	<i>Gardenia jasminoides</i>
Geranium	<i>Pelargonium</i> spp.
Grass	<i>Pennisetum alopecuroides</i>
Grass, Dwarf Pampas	<i>Phalaris</i> spp.
Grass, Pampas	<i>Cortaderia selloana</i>
Hawthorn, Indian	<i>Rhaphiolepis indica</i>
Heather	<i>Erica dareyensis</i>
Hemlock	<i>Tsuga</i> spp.
Hibiscus	<i>Hibiscus moscheutos</i>
Hibiscus	<i>Hibiscus rosa-sinensis</i>
Holly	<i>Ilex</i> spp.
Hosta	<i>Hosta</i> spp.
House-Leek	<i>Sempervivum</i> spp.
Hydrangea	<i>Hydrangea</i> spp.
Hydrangea, French	<i>Hydrangea macrophylla</i>
Impatiens	<i>Impatiens</i> spp.
Iris, African	<i>Iris iridioides</i>
Iris, Butterfly	<i>Iris iridioides</i>
Ivy, Algerian	<i>Hedera algeriensis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Swedish	<i>Plectranthus</i> spp.
Juniper	<i>Juniperus procumbens</i>
Juniper	<i>Juniperus scopulorum</i>
Juniper	<i>Juniperus</i> spp.
Larkspur	<i>Delphinium</i> spp.

2/10/27

COMMON NAME	BOTANICAL NAME
Laurel	<i>Laurus nobilis</i>
Laurel, Australian	<i>Pittosporum</i> spp.
Laurel, Japanese	<i>Aucuba japonica</i>
Lilac, California	<i>Ceanothus</i> spp.
Lilac, Wild	<i>Ceanothus sanguineus</i>
Lily, Peace	<i>Spathiphyllum floribundium</i>
Lily-Turf	<i>Liriope muscari</i>
Live-Forever	<i>Sempervivum</i> spp.
Magnolia	<i>Magnolia</i> spp.
Magnolia, Saucer	<i>Magnolia soulangiana</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Maple, Japanese	<i>Acer palmatum</i>
Maple, Sugar	<i>Acer saccharum</i>
Marigold	<i>Tagetes</i> spp.
Mock-Orange	<i>Pittosporum tobira</i>
Mugwort	<i>Artemisia</i> spp.
Nandina	<i>Nandina domestica</i>
Oak, Pin	<i>Quercus palustris</i>
Oak, Red	<i>Quercus falcata</i>
Oleander	<i>Nerium oleander</i>
Orpine	<i>Sedum</i> spp.
Palm, Date	<i>Phoenix dactylifera</i>
Palm, Parlor	<i>Chamaedora elegans</i>
Palm, Queen	<i>Syagrus romanzoffianum</i>
Palm, Roebelin's	<i>Phoenix roebelenii</i>
Palm, Sago	<i>Caryota urens</i>
Pansy	<i>Viola</i> spp.
Paper-Plant	<i>Fatsia japonica</i>
Pear, Bradford's	<i>Pyrus calleryana</i>
Periwinkle	<i>Vinca</i> spp.
Petunia	<i>Petunia</i> spp.
Philodendron	<i>Philodendron</i> spp.
Phlox	<i>Phlox</i> spp.
Photinia, Red-Tip	<i>Photinia glabra</i>
Pine	<i>Pinus</i> spp.
Pine, Black	<i>Pinus nigra</i>
Pine, Eastern White	<i>Pinus strobus</i>
Pine, Muhgo	<i>Pinus muhgo</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pink	<i>Dianthus</i> spp.
Poinsettia	<i>Euphorbia</i> spp.
Pothos	<i>Epipremnum</i> spp.
Primrose	<i>Primula</i> spp.

COMMON NAME	BOTANICAL NAME
Pussy's-Foot	<i>Ageratum</i> spp.
Redbud, Western	<i>Cercis occidentalis</i>
Rhododendron	<i>Rhododendron</i> spp.
Ribbon-Grass	<i>Setaria</i> spp.
Rose of Sharon	<i>Hibiscus syriacus</i>
Rose	<i>Rosa</i> spp.
Rose-Bay	<i>Nerium oleander</i>
Rosemary (Prostrate)	<i>Rosmarinus</i> spp.
Rubber-Plant, Baby	<i>Peperomia</i> spp.
Rubber-Tree	<i>Brassaia actinophylla</i>
Sage	<i>Salvia</i> spp.
Sagebrush	<i>Artemisia</i> spp.
Snap-Dragon	<i>Antirrhinum</i> spp.
Snowball	<i>Ceanothus</i> spp.
Spirea	<i>Spirea budalda</i>
Spirea	<i>Spirea japonica</i>
Spruce, Blue	<i>Picea pungens</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, White	<i>Picea glauca</i>
Starwort	<i>Aster</i> spp.
Stonecrop	<i>Sedum</i> spp.
Sweet Alyssum	<i>Lobularia maritima</i>
Thyme, Creeping	<i>Thymus serpyllum</i>
Umbrella-Tree	<i>Brassaia actinophylla</i>
Verbena	<i>Verbena</i> spp.
Vervain	<i>Verbena</i> spp.
Viburnum	<i>Viburnum</i> spp.
Vinca	<i>Catharanthus roseus</i>
Viola	<i>Viola</i> spp.
White alder	<i>Clethra</i> spp.
Wiegela, Pink	<i>Wiegela florida</i>
Willow, Virginia	<i>Itea virginica</i>
Winterberry	<i>Ilex</i> spp.
Wormwood	<i>Artemisia</i> spp.
Yaupon	<i>Ilex</i> spp.
Yew, Spreading	<i>Taxus baccata</i>
Yucca	<i>Yucca</i> spp.
Zebra-Plant	<i>Aphelandra</i> spp.
Zinnia	<i>Zinnia</i> spp.

\*Do not apply Dynasty to *Malus* spp., *Prunus* spp., or leatherleaf fern (*Rumohra adianformis* and other species)

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**STORAGE AND DISPOSAL**

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Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage**

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Disposal**

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

**Residue Removal [capacities equal to or less than 5 gallons]**


Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**For Bulk and Minibulk Containers:****Residue Removal [capacities greater than 5 gallons]**

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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Manufactured for:  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP 1159A



[Container Label]

**Dynasty®**

**Fungicide**

Broad-spectrum seed treatment fungicide for control of seed and seed-borne diseases.

Active Ingredient :	
Azoxystrobin: CAS No. 131860-33-8.....	9.6%
Other Ingredients:	90.4%
Total:	100.0%

Contains 0.83 pounds of active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1159

EPA Est.

Product of  
Formulated in

SCP 1159A

\_\_\_\_\_ gallon  
Net Contents

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b>	

**Environmental Hazards**

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

**Storage and Disposal**

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### **Pesticide Storage**

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