

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Attn: Khalid Akkari BASF Corporation P.O. Box 13528 26 Davis Drive Research Triangle Park, NC 27709

JUN 1 8 2008

Subject:

Endura Fungicide

EPA Registration No. 7969-197

Your revised master and supplemental amended labels for subgroups leafy greens 4A &

petioles 4B, application dated April 4, 2008

Dr. Akkari:

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, has been reviewed. Both labels are acceptable provided the conditions herein are observed in a revised final printed master label, which is to be resubmitted to the Agency within 45 days of the date hereon. Both labels stamped, "Accepted with Comments" are enclosed.

- 1. Under the 'Environmental Hazards' section, on page 2, of the master label, as the final sentence to the subsection 'Surface Water Advisory', add, "Sound erosion control practices will reduce this products contribution to surface water contamination."
- 2. On page 1, of the supplemental label, following the sentence "Observe the additional...Endura main label" insert, "Refer to the Endura main label for specific instructions on these methods."

If you have any questions, please contact Bryant Crowe by phone at (703) 305-0025 or via email at crowe.bryant@epa.gov.

Enclosures

Tony Kish,

Sincerely,

Product Manager, Team 22

Fungicide Branch

Registration Division (7505P)



The Chemical Company

GROUP

FUNGICIDE

ACCEPTED with COMMENTS In EPA Letter Dated

JUN 1 8 2008 Under the Federal Insecticide, Pungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7969-197



For use in dry and succulent beans, berries, head and stem Brassicas, leafy Brassica greens, bulb vegetables, canola, carrots, celery, cucurbit vegetables, fruiting vegetables, grapes, leafy greens, leafy petioles, lettuce, peanut, succulent and dried shelled peas, pistachio, pome fruits, potato, root and tuber vegetables, soybean, spinach, stone fruits, strawberries, sunflower, and tree nuts.

Active Ingredient:

Boscalid: 3-pyridinecarboxamide, 2-chloro-N-(4'-chloro(1,1'-biphenyl)-2-yl)	70.0%
Other Ingredients:	30.0%
Total;	100.0%
(0.7 oz ai f0.044 lb ail in 1 oz of Endura® fungicide)	

EPA Reg. No. 7969-197

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

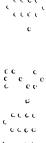
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709



	FIRST AID	
If in eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice. 	
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. 	
If swallowed	 Call a poison control center 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 center 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 mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice. 	
	HOT LINE NUMBER	

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals Warning. Causes substantial but temporary eye injury.

Harmful if absorbed through skin. Harmful if swallowed. **DO NOT** get in eyes or on clothing. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE) Applicators and other handlers must wear:

- Protective eyewear (goggles, face shield or safety glasses)
- · Long-sleeved shirt and long pants
- · Chemical-resistant gloves
- Shoes plus socks

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

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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

DO NOT apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features, such as ponds, streams, and springs, will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

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 triber consult the agency responsible for pesticiéé မြော်မြေး



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) and restricted-entry intervals. 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 **12 hours**.

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:

- Protective eyewear (goggles, face shield or safety glasses)
- Coveralls
- Chemical-resistant gloves
- Shoes plus socks

Storage and Disposal

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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.

Triple rinse containers too large to shake (capacity > 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten clo-

sures. 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. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In Case of Spill

In case of large-scale spillage regarding this product, call: CHEMTREC 1-800-424-9300

BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

- Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with water.
- Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

General Information

This package contains **Endura® fungicide**, a water dispersible granule (WG). Boscalid, the active ingredient in **Endura**, belongs to the group of respiration inhibitors classified by the US EPA and Canada PMRA as carboxamides, or target site of action **Group 7** fungicides. **Endura** has a new mode of action and is effective against pathogens resistant to other fungicides.

Endura has a protective effect because it inhibits spore germination and a curative effect because it inhibits mycelial growth and sporulation of the fungus on the leaf surface. However, optimum disease control is achieved when **Endura** is applied in a regularly scheduled protective spray program and used in a rotation program with other fungicides.

Because of its high specific activity and rainfastness, **Endura** has good residual activity against target fungi. **Endura** is not for use in greenhouse or transplant production systems.

Resistance Management

Endura contains boscalid, a Group 7 fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of carboxamide (anilide) fungicides (target site Group 7), such as dicarboximides, sterol inhibitors, benzimidazoles, Qol fungicides, and phenylamides. Fungal isolates resistant to Group 7 fungicides may eventually dominate the fungal population if Group 7 fungicides are used predominantly and repeatedly in the same field in successive years as the

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primary method of control for the targeted pathogen species. This may result in reduction of disease control of **Endura® fungicide** or other **Group 7** fungicides.

To maintain the performance of **Endura** in the field, **DO NOT** exceed the total number of sequential applications of **Endura** and the total number of applications of **Endura** per season stated in **Crop-specific Restrictions** and **Limitations** and **Crop-specific Use Directions**. Adhere to the label instructions regarding the consecutive use of **Endura** or other target site of action **Group 7** fungicides that have a similar site of action on the same pathogens.

The following recommendations may be considered to delay the development of fungicide resistance:

- Tank mixtures: Use tank mixtures with fungicides from different target site of action groups that are registered/permitted for the same use and that are effective against the pathogens of concern. Use at least the minimum labeled rates of each fungicide in the tank mix.
- 2. IPM: Endura should be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. Consult your local extension specialist, certified crop advisor and/or BASF representative for additional IPM strategies established for your area. Endura may be used in Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.
- Monitoring: Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.
- 4. Reporting: If a Group 7 target site fungicide, such as Endura, appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a BASF representative, local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance.

Cleaning Spray Equipment

Spraying equipment must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure crops was used prior to **Endura.**

Application Instructions

Apply rates of **Endura** as instructed by the **Crop-specific Use Directions**. Apply **Endura** with ground sprayer, aerial equipment or through sprinkler irrigation equipment. Equipment should be checked frequently for calibration. Under low-level disease conditions, use the minimum application rates; use maximum application rates and shortened spray schedules for severe or threatening disease conditions. **DO NOT** apply when conditions favor drift from target area.

Ground Application

Apply **Endura** in sufficient water to ensure thorough coverage of foliage, bloom, and fruit. Thorough coverage is required for optimum disease control.

Directed or Banded Sprays

The rates on the **Endura** label reflect the amount of product that should be applied uniformly over an acre of ground on a broadcast basis.

In some crops, **Endura** may be applied as a directed or banded spray over the rows or plant beds, with the alleys or row middles left unsprayed. For such uses, the labeled **Endura** rates should be reduced in proportion to the area actually sprayed. This adjustment is necessary to avoid applying the product at use rates higher than permitted according to label directions.

The following formula may be used to determine the broadcast-equivalent rate for doing directed or banded sprays:

Example: A directed spray application will be made to 45" plant beds that are separated by 15" of unsprayed row middles.

$$45$$
" + 15 " = 60 " sprayed bed width + unsprayed row middles = 60 " total row width

The calculation to determine the appropriate equivalent rate of product to use for this situation based on a label broadcast rate of 6 ozs/acre follows:

$$\frac{45\text{" sprayed bed width}}{60\text{" total row width}} \times \frac{6 \text{ ozs } \mathbf{Endura}}{\text{treated acre}} = \frac{4.5 \text{ ozs } \mathbf{Endura}}{\text{field acre}}$$

Aerial Application

Aerial application can be made and thorough coverage is required to obtain optimum disease control. Avoid applications under conditions when uniform coverage cannot be obtained or when spray drift may occur. Use no less than 5 gallons of spray solution per acre. For aerial applications to tree and vine crops, use no less than 10 gallons of spray solution per acre. For all other crops, thorough coverage is required for optimum disease control.

Directions For Use Through Sprinkler Irrigation Systems

Sprayer Preparation: Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Application Instructions: Apply **Endura** at rates and timings as described in this label.

Use Precautions for Sprinkler Irrigation Applications

 Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side

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[wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system.

- Add this product to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. DO NOT exceed 1/2 inch (13,577 gallons) per acre. In stationary or noncontinuous moving systems, inject the product-water mixture in the last 15 to 30 minutes of each set allowing sufficient time for all of the required pesticide to be applied by all the sprinkler heads and applying the labeled rate per acre for that crop. DO NOT apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.
- If you have questions about calibration, you should contact State Extension Service specialist, equipment manufacturers or other experts.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.
 A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- DO NOT connect an irrigation system (including green-house systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

Specific Instructions for Public Water Systems

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- DO NOT apply when wind speed favors drift beyond the area intended for treatment.

Additives and General Tank Mixing Information

Endura® fungicide can be tank mixed with most recommended fungicides and insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives as specified in Crop-specific Use Directions.

Under some conditions, the use of additives or adjuvants may improve the performance of **Endura**.

However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Endura** with other products. Therefore, before using any tank mix (fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives), test the combination on a small

portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.

Consult a BASF representative or local agricultural authorities for more information concerning additives.

Compatibility Test and Mixing Order

If tank mixtures are used, adhere to restrictions due to rates, label directions and precautions on all labels.

Compatibility Test for Tank Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of label rate per acre.

- Water. For 100 gallons per acre spray volume, use 16 cups (1 gallon) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2. Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspoemulsions). Cap the jar and invert 10 cycles.
- 3. Water-soluble products. Cap the jar and invert 10 cycles.
- Emulsifiable concentrates (oil concentrate or methylated seed oil when applicable). Cap the jar and invert 10 cycles.
- 5. Water-soluble additives. Cap the jar and invert 10 cycles.
- 6. Let the solution stand for 15 minutes.
- 7. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, or fine particles that precipitate to the bottom, or thick (clabbered) texture. DO NOT use any spray solution that could clog spray nozzles.

Mixing Order

- Water. Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water.
- 2. **Agitation.** Maintain constant agitation throughout mixing and application.
- 3. **Inductor.** If an inductor is used, rinse it thoroughly after each component has been added.
- 4. Products in PVA bags. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- Water-dispersible products (such as Endura® fungicide, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 6. Water-soluble products.
- 7. **Emulsifiable concentrates** (such as oil concentrates when applicable).
- 8. Water-soluble additives (such as AMS or UAN when applicable).
- Remaining quantity water. Make sure that each component is thoroughly mixed and suspended before adding tank mix partners. Make constant agitation during application.



General Restrictions and Limitations - All Crops

- Maximum seasonal use rate: DO NOT apply more than the maximum rate per acre as listed in Table 1. Cropspecific Restrictions and Limitations and Table 2. Crop-specific Use Directions.
- Maximum rate per application: DO NOT apply more than the maximum rate per acre per application as listed in Table 1. Crop-specific Restrictions and Limitations and Table 2. Crop-specific Use Directions.
- DO NOT make more than the total number of applications of Endura® fungicide per season, as listed in Table 1. Crop-specific Restrictions and Limitations and Table 2. Crop-specific Use Directions.
- Preharvest Interval (PHI): See Table 1. Crop-specific Restrictions and Limitations and Table 2. Crop-specific Use Directions.
- Livestock Feeding Restrictions: DO NOT feed peanut hay to livestock.
- **DO NOT** apply more than the maximum season use rate of ai/A for each specific crop from any combination of products (e.g. **Pristine® fungicide, Endura**).
- Plantback Restrictions: Crops with registered uses may be replanted at any time. All other crops grown for food or feed may be planted after 14 days.
- DO NOT use on cowpea, field pea, grain lupin, sugar beet, garden beet, radish and turnip.
- Endura is not for use in greenhouse or transplant production systems.

Table 1. Crop-specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Rate per Acre per Application (ozs product)	Maximum Number of Applications per Season ²	Maximum Rate per Acre per Season (ozs product)
Beans, Dry	21	11	2	22
Beans, Succulent	7	11	2	. 22
Berries Group¹ Bushberry Caneberry	0	8	4	32
Head and Stem Brassicas¹ Broccoli Cabbage Cauliflower	o o	9	2	18
Leafy Brassica Greens¹	14	9	2	18
Bulb Vegetables Group¹ Garlic Leeks Onion	7	6.8	6	41
Canola	21	6	2	12
Carrots	0	4.5	5	22.5
Celery	0	9	2	18
Cucurbit Vegetables Group' Cantaloupe Cucumber Melon Pumpkin Squash Watermelon	0	6.5	4	26
Fruiting Vegetables Group¹ Bell Pepper Chili Pepper Eggplant Tomato	0	12.5	2	25
Grapes	14	8	3	24
Leafy Greens (except Brassica, Head Lettuce, and Leaf Lettuce)	14	9	2	18

Table 1. Crop-specific Restrictions and Limitations (continued)

Crop	Minimum Time from Application to Harvest (PHI) (days)	from Application to Harvest Acre per Application of Applications (ozs product)		Maximum Rate per Acre per Season (ozs product)
Leafy Petioles (except Brassica)	0	9	2	18
Lettuce	14	11	2	22
Peanut	14	10	3	30
Dried Shelled Peas	21	11	2	22
Succulent Peas (edible podded and shelled)	7	11	2	22
Pistachio	14	5.3	4	21.2
Pome Fruits¹ Apple, Pear, etc.	0	6.5	4	26
Potato	10	10	2	20
Root and Tuber Vegetables Arrowroot Chinese artichoke	10	4.5	4 (at 4.5 ozs/acre rate)	20
Jerusalem artichoke Edible canna Chayote (root) Ginger Leren Sweet potato Turmeric Yam bean True yam	10	10	2 (at 10 ozs/acre rate)	. 20
Root and Tuber Vegetables Carrot Celeriac Ginseng Horseradish Skirret	0	4.5	5	22.5
Soybean	21	11	2	22
Spinach	0	9	2	18
Stone Fruits Group¹ Apricot Cherry (sweet and sour) Nectarine Peach Plum Prune	0	5.3	5	26.5
Strawberries	0	8	5	40
Sunflower	21	9	2	18
Tree Nuts Group¹ Pecan, Walnut, etc., except Almond	14	5.3	4	21.2
Almond	25	5.3	4	21.2

¹ For a complete list of crops within a crop group, see **Crop-specific Use Directions**.
² At the maximum use rate only.
^a Aerial application is permitted for all labeled crop uses.

Crop-specific Use Directions

Table 2. Crop-specific Use Directions

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Beans, Dried and	Ascochyta blight	8 to 11 ozs	2	22 ozs	Dried Beans
Succulent	(Phoma exigua,	per acre		per acre	21 days
Broad bean	Ascochyta spp.)		į .		Succulent Beans
Guar	D. () ()				7 days
Lablab bean	Botrytis gray mold (Botrytis cinerea)				/ days
Lupinus spp.					
Sweet lupin	White mold]		
White Iupin	(Sclerotinia sclerotiorum)				
White sweet lupin					
Phaseolus spp. Field bean Kidney bean Lima bean Navy bean Pink bean Pinto bean Runner bean Snap bean Tepary bean Wax bean					
Vigna spp. Adzuki bean Asparagus bean Blackeyed pea Catjang Chinese long bean Crowder pea Jack bean Moth bean Mung bean Rice bean Southern pea Urd bean Yard long bean					
Chickpea	Ascochyta blight	6 ozs			
(garbanzo bean)	(Phoma exigua, Ascochyta spp.)	per acre			
Lentils	Botrytis gray mold (Botrytis cinerea)				
	White mold (Sclerotinia sclerotiorum)				

Application Directions: Apply Endura® fungicide at the beginning of flowering or prior to onset of disease. Use the higher rate for extended protection and maximum yield benefit. Apply a second time at full bloom if conditions are favorable for disease development or if heavy disease has already set in.

Ascochyta blight in chickpeas and lentils develops quickly once established, so early detection and application is essential to reduce losses. Apply at the beginning of flowering. Make a second application 7 to 10 days later if disease persists or weather conditions are favorable for disease development.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Berries Group Bushberry Blueberry (highbush and lowbush) Currant Elderberry Gooseberry Huckleberry Caneberry Blackberry (all varieties) Loganberry (black and red)	Botrytis gray mold (Botrytis cinerea)	8 ozs per acre	4	32 ozs per acre	0 days

Application Directions: Begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval. DO NOT apply by air.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Brassica Leafy	Alternaria blight	6 to 9 ozs	2	18 ozs	0 days
Vegetables	(Black spot)	per acre		per acre	[
	(Alternaria spp.)	Ì			ĺ
Head and Stem		1			j
Brassicas	Gray mold		,		
Broccoli	(Botrytis cinerea)		}		}
Brussels sprouts Chinese broccoli (gai lon) Cabbage	Sclerotinia stem rot (Sclerotinia sclerotiorum, S. minor)				
Chinese cabbage (napa)	Suppression Only	_			
Chinese mustard (gai choy) Cauliflower	Powdery mildew (Erysiphe polygoni)				
Cavalo broccolo	Rhizoctonia bottom rot	}			
Kohlrabi	(Rhizoctonia solani)				

Application Directions: Begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Brassica Leafy	Alternaria blight	6 to 9 ozs	2	18 ozs	14 days
Vegetables	(Black spot)	per acre		per acre	{
l and Dunania	(Alternaria spp.)		j		
Leafy Brassica					
Greens	Gray mold	,			
Broccoli raab (rapini)	(Botrytis cinerea)				
(rapirily	Sclerotinia stem rot				
Chinese cabbage	(Sclerotinia sclerotiorum,				
(bok choy)	S. minor)				
Collards	Suppression Only				
Kale Mizuna	Powdery mildew		`		
Mustard greens	(Erysiphe polygoni)				
Mustard spinach Rape greens	Rhizoctonia bottom rot (Rhizoctonia solani)				

Application Directions: Begin applications of Endura prior to disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Bulb Vegetables Group	Botrytis leaf blight (Botrytis spp.)	6.8 ozs per acre	6	41 ozs per acre	7 days
Garlic Leek Onions (all varieties) Shallot	Purple blotch (Alternaria porri)				

Application Directions: For control of purple blotch and Botrytis leaf blight, begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than six (6) applications of Endura per season.

DO NOT make more than two (2) applications of Endura before alternating to a labeled fungicide with a different mode of action.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Canola	Sclerotinia stem rot (Sclerotinia sclerotiorum)	5 to 6 ozs per acre	2	12 ozs per acre	21 days

Application Directions: Begin applications of Endura at 20% to 50% flowering or prior to the onset of disease.

Use the higher rate for extended protection. Apply a second time if conditions continue to be favorable for disease development.

No restriction on livestock grazing or feeding.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Carrots	Alternaria Leaf spot (Alternaria spp.)	4.5 ozs per acre	5	22.5 ozs per acre	0 days

Application Directions: Begin applications of Endura prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

NO restriction on livestock grazing or feeding for carrot culls.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than five (5) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Celery Celery (Chinese)	Alternaria leaf spot (Alternaria spp.)	4.5 to 9 ozs per acre	2	18 ozs per acre	0 days
, (0	Suppression Only				
	Powdery mildew (Erysiphe spp.)	_			
	Botrytis rot (Botrytis spp.)	8 to 9 ozs per acre			
	Phoma (<i>Phoma</i> spp.)				
	Sclerotinia rot and blight (Sclerotinia spp.)				
	Pink rot (Sclerotinia sclerotiorum)				
	Suppression Only	_			
	Crater rot (Rhizoctonia solani)				

Application Directions: Begin applications of Endura® fungicide prior to the onset of disease development and continue on a 7-day interval. For pink rot and crater rot, make the first application just prior to row closure with a subsequent application two weeks later.

Use the higher rate when disease pressure is high.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Cucurbit Vegetables Includes all types and hybrids of: Chayote Chinese waxgourd Citron melon Cucumber Gherkin Pumpkin Watermelon	Alternaria blight (Alternaria cucumerina) Gummy stem blight (Didymella bryoniae) Suppression Only Powdery mildew (Sphaerotheca fuliginea, Erysiphe cichoracearum)	6.5 ozs per acre	4	26 ozs per acre	0 days
Edible Gourd Chinese okra Cucuzza Hyotan					
Momordica spp. Balsam apple Balsam pear Bitter melon Chinese cucumber					
Muskmelon Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honey balls Mango melon Persian melon Pineapple melon Santa Claus melon Snake melon					
Summer Squash Crookneck squash Scallop squash Straightneck squash Vegetable marrow Zucchini			·		
Winter Squash Acorn squash Butternut squash Calabaza Hubbard squash Spaghetti squash	coin applications of Endura® functions				

Application Directions: Begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura per season.

DO NOT make more than one (1) application of **Endura** before alternating to a labeled fungicide with a different mode of action for at least one (1) application.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Fruiting Vegetable Group Eggplant Ground cherry Pepino Pepper (all varieties)	Early Blight (Alternaria solani)	2.5 to 3.5 ozs per acre or 2.5 to 3.5 ozs per 100 gallons of spray volume (dilute)*	6	21 ozs per acre	0 days
Tomatillo Tomato	Target spot (Corynespora cassiicola)	3.5 ozs per acre			
Tomato	Black mold (Alternaria alternata)	3.5 to 5 ozs per acre	2	25 ozs per acre	
	Botrytis gray mold (Botrytis cinerea)	9 to 12.5 ozs per acre			

Application Directions: Begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval for early blight and Botrytis gray mold.

Use the higher rate and the shorter interval when disease pressure is high.

*For applications based on dilute volume, plants should be sprayed to runoff. Apply a minimum of 20 gallons of spray volume per acre, and increase the spray volume as the plants grow during the season. Spray volume should be proportional to the amount of plant tissue to be covered such that 100 gallons of spray per acre is used on mature plants.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than six (6) applications of Endura at the low rate or two (2) applications of Endura at the high rate per season. DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Grapes	Powdery mildew (Uncinula necator)	4.5 ozs per acre	5	24 ozs per acre	14 days
	Botrytis gray mold (Botrytis cinerea)	8 ozs per acre	3		

Application Directions: For powdery mildew control, begin applications of Endura at budbreak or prior to the onset of disease and continue on a 10- to 14-day interval.

For the control of Botrytis gray mold, begin applications of **Endura** prior to disease development and when conditions favor disease development during early bloom, bunch pre-closure or veraison.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than five (5) applications of Endura at the low rate or three (3) applications of Endura at the high rate per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Leafy Greens (except Brassica, Head Lettuce, and Leaf Lettuce) Amaranth	Alternaria leaf spot (Alternaria spp.) Ascochyta leaf spot (Ascochyta spp.)	4.5 to 9 ozs per acre	2	18 ozs per acre	14 days
Arugula Chervil	Phoma (Phoma spp.)				
Chrysanthemum (edible-leaved and	Powdery mildew (<i>Erysiphe</i> spp.)				
garland) Corn Salad	Botrytis rot (Botrytis spp.)	7 to 9 ozs per acre			
Cress (garden and upland) Dandelion	Sclerotinia rot and blight (Sclerotinia spp.)				
Dock					
Endive					
Orach					Ì
Parsley					
Purslane (garden and winter)					
Radicchio (red chicory)					

Application Directions: Begin applications of Endura® fungicide prior to the onset of disease development and continue on a 7-day interval.

Use the higher application rate when disease pressure is high.

No restriction on livestock grazing or feeding.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Leafy Petioles (except Brassica)	Alternaria leaf spot (Alternaria spp.)	4.5 to 9 ozs per acre	2	18 ozs per acre	0 days
Cardoon Celtuce Fennel (Florence) Rhubarb Swiss chard	Ascochyta leaf spot (Ascochyta spp.) Phoma (Phoma spp.) Powdery mildew (Erysiphe spp.)				
	Botrytis rot (Botrytis spp.) Sclerotinia rot and blight (Sclerotinia spp.)	7 to 9 ozs per acre			

Application Directions: Begin applications of Endura® fungicide prior to the onset of disease development and continue on a 7-day interval.

Use the higher application rate when disease pressure is high.

No restriction on livestock grazing or feeding.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Lettuce Head and Leaf	Lettuce drop (Sclerotinia minor, S. sclerotiorum)	8 to 11 ozs per acre	2	; 22 ozs per acre	14 days
	Botrytis rot (Botrytis cinerea)				
-	Phoma basal rot (Phoma exigua)				
	Suppression Only				
	Rhizoctonia bottom rot (Rhizoctonia solani)		,		
	Lettuce powdery mildew (Erysiphe cichoracearum)				

Application Directions: A protective fungicide barrier is needed to maximize disease control.

On direct-seeded lettuce, make the first application immediately after emergence or prior to disease development.

On transplanted lettuce, make the first application immediately after transplanting or prior to the onset of disease.

Make a second application if the soil surface is disturbed by cultivation or thinning and if conditions continue to favor disease development.

Use the higher rate when disease pressure is high.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Peanut	Early leaf spot (Cercospora arachidicola) Late leaf spot (Cercosporidium personatum)	6.5 to 10 ozs per acre	3	30 ozs per acre	14 days
	Sclerotinia blight (Sclerotinia minor) Web blotch (Phoma arachidicola) Suppression Only	8 to 10 ozs per acre			
	Sclerotium stem rot, Southern stem rot (Sclerotium rolfsii)				

Application Directions: For control of early and late leaf spot and web blotch, begin applications of Endura® fungicide prior to the onset of disease and continue on a 14-day interval.

For control of Sclerotinia blight, begin applications of **Endura** prior to the onset of disease or at 45 to 60 days after planting. Make a second application 14 to 21 days later.

For suppression of Southern stem rot (Sclerotium rolfsii), apply **Endura** prior to disease development or at 45 to 60 days after planting. Two additional applications may be made at 14-day intervals. For improved control of Southern stem rot, **Endura** may be mixed with other labeled, effective fungicides.

Use the higher rate and/or shorter spray interval when disease pressure is high or in fields with a history of disease.

Resistance Management: To limit the potential for development or resistance, DO NOT make more than three (3) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Restrictions: DO NOT feed peanut hay to livestock. DO NOT graze or harvest for forage use.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Dried Shelled Peas Lentil (Lens) Pea (Pisum) Garden pea Green pea Pigeon pea	Alternaria leaf and pod spot (Alternaria spp.) Botrytis gray mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) White mold (Sclerotinia sclerotiorum) Suppression Only Powdery mildew (Erysiphe polygoni)	8 to 11 ozs per acre		22 ozs per acre	21 days
	Ascochyta blight (Phoma exigua, Ascochyta spp.)	6 ozs per acre			

Application Directions: For optimal disease control, begin applications of Endura® fungicide prior to disease development or at the beginning of flowering and repeat on a 5- to 14-day interval if conditions are conducive for disease development.

Use the higher rate and shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season.

Restrictions: DO NOT use on cowpeas. DO NOT feed treated pea commodities to livestock.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Edible Podded Peas Pea (Pisum) Dwarf pea Edible podded pea Pigeon pea Snow pea Sugar snap pea	Alternaria leaf and pod spot (Alternaria spp.) Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis gray mold (Botrytis cinerea)	8 to 11 ozs per acre	2	22 ozs per acre	7 days
Soybean (immature seed) Sword bean Succulent Shelled Peas Pea (Pisum) English pea Garden pea Green pea Pigeon pea	Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) White mold (Sclerotinia sclerotiorum) Suppression Only Powdery mildew (Erysiphe polygoni)				

Application Directions: For optimal disease control, begin applications of Endura® fungicide prior to disease development or at the beginning of flowering and repeat on a 5- to 14-day interval if conditions are conducive for disease development.

Use the higher rate and shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season.

Restrictions: DO NOT use on cowpeas. DO NOT feed treated pea commodities to livestock.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Pistachio	Alternaria late blight (Alternaria alternata)	5.3 ozs per acre	4	21.2 ozs per acre	14 days

Application Directions: Apply Endura prior to the onset of disease development and continue on a 7- to 28-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

For aerial application to pistachio trees, use no less than 10 gallons of spray solution per acre.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Pome Fruits Group	Apple scab	6.5 ozs	4	26 ozs	0 days
Apple Crabapple Loquat Mayhaw Oriental pear Pear	(Venturia inaequalis) Pear scab (Venturia pirina) Powdery mildew	per acre		per acre	
Quince	(Podosphaera leucotricha) Fly speck (Zygophiala jamaicensis) Alternaria blotch (Alternaria mali)				

Application Directions for scab and powdery mildew: Begin applications of Endura® fungicide prior to disease development and continue on a 7- to 10-day interval.

Use the shorter interval when disease pressure is high.

Application Directions for fly speck and Alternaria blotch: Begin applications of **Endura** prior to disease development and continue on a 7- to 14-day interval. Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Appplication to Harvest (PHI)
Potato	Early blight (Alternaria spp.)	2.5 to 4.5 ozs per acre	4	20 ozs per acre	10 days
	White mold (Sclerotinia sclerotiorum)	5.5 to 10 ozs per acre	2		
	Suppression Only				
	Gray mold (Botrytis cinerea)				

Application Directions: For control of Sclerotinia white mold, begin applications of Endura prior to infection. Generally, the first infections begin when the rows start to close and/or when the plants start flowering. Make a second application 14 days later if conditions continue to be favorable for disease development.

For control of Alternaria early blight or suppression of Botrytis gray mold, begin applications of Endura prior to the onset of disease and continue applications at 7- to 14-day intervals if conditions continue to be favorable for disease development.

Use the higher rates once disease has been confirmed in your area or weather conditions are conducive to disease development.

The use of additives or adjuvants may improve the performance of **Endura**. For additional details and precautions, refer to **Additives and General Tank Mixing Information**.

No restriction on livestock grazing or feeding.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura at the low rate or two (2) applications of Endura at the high rate per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Root and Tuber	Early blight	2.5 to 4.5 ozs	4	20 ozs	10 days
Vegetables Arrowroot	(Alternaria solani)	per acre		per acre	
Chinese artichoke	Cercospora leaf spot				
Jerusalem artichoke	(Cercospora spp.)	}			
Edible canna Chayote (root) Ginger	Septoria leaf spot (Septoria spp.)				
Leren	Sclerotinia white mold	5.5 to 10 ozs	2		1
Sweet potato Turmeric Yam bean True yam	(Sclerotinia sclerotiorum)	per acre			

Application Directions: For optimal disease control, begin applications of Endura® fungicide prior to disease development and repeat on a 7- to 14-day interval if conditions are conducive for disease development.

Use the higher rate and shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura at the low rate or two (2) applications of Endura at the high rate per season. DO NOT make more than two (2) applications of Endura before alternating to a labeled fungicide with a different mode of action for at least one application.

Restrictions: DO NOT use on garden beets, sugar beets, radishes or turnips.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Root and Tuber	Alternaria leaf spot	4.5 ozs	5	22.5 ozs	0 days
Vegetables	(Alternaria dauci,	per acre		per acre	
Carrot	Alternaria spp.)				
Celeriac	Cercospora leaf spot				
Ginseng	(Cercospora spp.)				
Horseradish	(Ocircospora spp.)				
Skirret	Gray mold rot				
	(Botrytis cinerea)				
	Powdery mildew (Erysiphe spp.)				
	Septoria leaf spot (Septoria spp.)			,	
	Watery soft rot (Sclerotinia sclerotiorum)				

Application Directions: For optimal disease control, begin applications of Endura prior to disease development and repeat on a 7- to 14-day interval if conditions are conducive for disease development.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than five (5) applications of Endura per season. DO NOT make more than two (2) applications of Endura before alternating to a labeled fungicide with a different mode of action for at least one application.

Restrictions: DO NOT use on garden beets, sugar beets, radishes or turnips.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Soybean	Alternaria leaf spot (Alternaria spp.)	3.5 to 5.5 ozs per acre	2	22 ozs per acre	21 days
	Suppression Only	5.5 ozs per acre			
	Brown spot (Sepotoria glycines)				
	Cercospora blight and leaf spot (Cercospora kikuchii)				
	Frogeye leaf spot (Cercospora sojina)				
	Rhizoctonia aerial blight (Rhizoctonia solani)				·
	Suppression Only	5.5 to 11 ozs per acre			
	White mold (Sclerotinia sclerotiorum)	1-2-33.3			

Application Directions: Begin applications of Endura® fungicide prior to disease development or when conditions are conducive for disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Spinach	Alternaria leaf spot	4.5 to 9 ozs	2	18 ozs	0 days
Spinach (New	(Alternaria spp.)	per acre		per acre	
Zealand and vine)	Ascochyta leaf spot (Ascochyta spp.)		,		
	Suppression Only				
	Powdery mildew (Erysiphe spp., Phyllactinia spp., Sphaerotheca spp.)				
	Botrytis rot	8 to 9 ozs			
	(Botrytis spp.)	per acre			
	Phoma (Phoma spp.)				
	Sclerotinia rot and blight (Sclerotinia spp.)				·

Application Directions: Begin applications of Endura® fungicide prior to the onset of disease development and continue on a 7-day interval.

Table 2. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Stone Fruits Group	Alternaria leaf spot	5.3 ozs	5	26.5 ozs	0 days
Apricot Cherry	(Alternaria spp.)	per acre		per acre	1
(sweet and tart)	Brown rot				
Nectarine	(Monilinia spp.)				
Peach Plum (all varieties)	Monilinia blossom blight (Monilinia spp.)				
Plumcot Prune	Ripe fruit rot (Botrytis cinerea, Monilinia fructicola, Monilinia laxa)				
	Scab (Cladosporium carpophilum)				
	Suppression Only	1			
	Powdery mildew (Sphaerotheca spp., Podosphaera spp.)				

Application Directions: Begin applications of Endura® fungicide at pink bud or prior to the onset of disease and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than five (5) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

For aerial application to stone fruits trees, use no less than 10 gallons of spray solution per acre.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Strawberries	Botrytis gray mold (Botrytis cinerea)	8 ozs per acre	5	40 ozs per acre	0 days

Application Directions: Begin applications of Endura no later than 10% bloom or prior to the onset of disease and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than five (5) applications of Endura per season.

DO NOT, make more than three (3) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

Table 2. Crop-specific Use Directions (continued)

Сгор	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Sunflower	Alternaria leaf spot (Alternaria spp.) Botrytis gray mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Powdery mildew (Erysiphe cichoracearum) Septoria leafspot (Septoria helianthi) Sclerotinia sclerotiorum)	4.5 to 9 ozs per acre	2	18 ozs per acre	21 days

Application Directions: For optimal disease control, begin applications of Endura® fungicide prior to disease development and continue on a 7- to 14-day interval if conditions are conducive for disease development.

Use the higher rate and shorter interval when disease pressure is high.

No restriction on livestock grazing or feeding.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than two (2) applications of Endura per season. DO NOT make more than two (2) applications of Endura before alternating to a labeled fungicide with a different mode of action for at least one application.

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Tree Nuts Group	Alternaria leafspot	5.3 ozs	4	21.2 ozs	14 days
Almond	(Alternaria spp.)	per acre		per acre	(for almond -
Beech nut	Blossom blight				25 days)
Brazil nut	(Monilinia spp.)				[
Butternut	Green fruit rot	İ			
Cashew	(Botrytis cinerea)				
Chestnut	Suppression Only	ł			
Chinquapin	Cappiosoion Ciny	-)	<u> </u>		
Filbert	Scab				
Hickory nut	(Cladosporium carpophilum, C. caryigenum)				
Macadamia nut	C. ouryigeriarry	}			
Pecan					
Walnut (black and English)					

Application Directions: In almond, begin applications of Endura at pink bud and continue on a 7- to 14-day interval up to 5 weeks after petal fall. In pecan, begin application of Endura prior to disease development and continue on a 7- to 21-day interval for the suppression of scab. For all other crops listed above, apply Endura prior to the onset of disease and continue on a 7- to 28-day interval.

In all cases, use the shorter interval when disease pressure is high or shoot growth is very rapid.

No restriction on livestock grazing or feeding for almond hulls.

Resistance Management: To limit the potential for development of resistance, DO NOT make more than four (4) applications of Endura per season.

DO NOT make more than two (2) sequential applications of Endura before alternating to a labeled fungicide with a different mode of action.

For aerial application to tree nuts, use no less than 10 gallons of spray solution per acre.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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> BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709







Supplemental Label

For use on Leafy Greens and Leafy Petioles (except Brassica Vegetables, Head Lettuce, and Leaf Lettuce)

EPA Reg. No. 7969-197

Active Ingredients:	
Boscalid: (3-pyridinecarboxamide,2-chloro-N-(4'-chloro(1,1'-biphenyl)-2-yl)	70,0%
Other Ingredients:	30.0%
Total:	100.0%

OBSERVE ALL FIRST AID, PRECAUTIONARY STATEMENTS, PERSONAL PROTECTIVE EQUIPMENT, AND MIXING AND APPLICATION INSTRUCTIONS ON THE **ENDURA® FUNGICIDE** MAIN CONTAINER LABEL BEFORE USING.

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.

General Information

Endura provides optimum disease control when applied in a regularly scheduled protective fungicide program and used in a spray program that rotates fungicides with different modes of action. Refer to the

Endura main label for general resistance management information and to the Crop-specific Use Directions and Crop-specific Restrictions and Limitations found in this label.

Aerial application is permitted for crops listed in Table 1.

Livestock grazing and feeding is permitted for crops listed in Table 1.

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Application Information

Apply Endura according to the rate, timing, resistance management and adjuvant use directions in **Table 1. Crop-specific Use Directions** in this label.

Observe the additional general recommendations on application instructions, additive use and mixing order on the **Endura** main label.

Endura may be applied by ground sprayer, by aerial equipment, or through sprinkler irrigation systems.

Restrictions and Limitations

Endura is not for use in greenhouse or transplant production systems.

Follow the restrictions and limitations outlined in Table 2. Crop-specific Use Restrictions and Limitations in this label for:

- Minimum preharvest interval (PHI)
- · Maximum rate per acre
- Maximum number of applications
- · Maximum rate per season

Refer to the **Endura** main label, EPA Reg. No. 7969-197, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Endura** container label and this supplemental in possession at the time of pesticide application.

Table 1. Crop-specific Use Directions

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Leafy Greens (except Brassica, Head Lettuce, and Leaf Lettuce)	Alternaria leaf spot (Alternaria spp.) Ascochyta leaf spot (Ascochyta spp.)	4.5 to 9 ozs per acre	2	18 ozs per acre	14 days
Amaranth	Phoma (Phoma spp.)	i			
Arugula Chervil	Powdery mildew (Erysiphe spp.)				
Chrysanthemum (edible-leaved and garland)	Botrytis rot (Botrytis spp.)	7 to 9 ozs per acre	,		
Com Salad Cress (garden and upland)	Scierotinia rot and blight (Scierotinia spp.)				
Dandelion					
Dock					
Endive				<u> </u>	
Orach					
Parsley Purslane (garden and winter)					
Radicchio (red chicory)					
Spinach					
Spinach (New Zealand and vine)		,			

Application Directions: Begin applications of **Endura® fungicide** prior to the onset of disease development and continue on a 7-day interval.

Use the higher application rate when disease pressure is high.

Table 1. Crop-specific Use Directions (continued)

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Leafy Petioles (except Brassica) Cardoon Celery Celery (Chinese) Celtuce Fennel (Florence) Rhubarb Swiss chard	Alternaria leaf spot (Alternaria spp.) Ascochyta leaf spot (Ascochyta spp.) Phoma (Phoma spp.) Powdery mildew (Erysiphe spp.) Botrytis rot (Botrytis spp.) Sclerotinia rot and blight (Sclerotinia spp.)	4.5 to 9 ozs per acre 7 to 9 ozs per acre	2	18 ozs per acre	0 days

Application Directions: Begin applications of **Endura® fungicide** prior to the onset of disease development and continue on a 7-day interval.

Use the higher application rate when disease pressure is high.

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Table 2. Crop-specific Use Restrictions and Limitations

Grop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate per Acre per Application (ozs)	Maximum Number of Applications per Season	Maximum Product Rate per Acre per Season (ozs)
Leafy Greens (except Brassica, Head Lettuce, and Leaf Lettuce)	0	9	2	18
Leafy Petioles (except Brassica)	0	9	2	18

Application Directions: Begin applications of **Endura® fungicide** prior to the onset of disease development and continue on a 7-day interval.

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ACCEPTED
with COMMENTS
In EPA Letter Dated

Under the rederal insecucide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No. 7969-197

Conditions of Sale and Warranty

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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The Chemical Company