1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

AUG 2 0 2003

Dr. Khalid Akkari BASF Corp. Agricultural Products P.O. Box 13258 Research Triangle Park, NC 27709-3528

Subject: Endura Supplemental Labeling

EPA Reg. No. 7969-197 Submission dated 8/18/2003

Dear Dr. Akkari:

The submission in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided you make the following changes:

- 1) The maximum number of applications for sunflower on page 9 must be revised to 2.
- 2) On page 7, after the heading Root and Tuber Vegetables insert "(cont.)", so that it is clear there are additional use directions for this group on the next page.

Submit one copy of the final printed label before releasing the product for shipment. A stamped copy of the supplemental label is enclosed for your records. This supplemental label must be incorporated into the "master label" within 24 months. If you have questions, please contact Dennis McNeilly at (703) 308-6742 or electronically at mcneilly. dennis@epa.gov.

Sincerely,

Cynthia Giles-Parker Product Manager 22

Fungicide Branch

Registration Division (7505C)

BASF Endura®

Supplemental Labeling

fungicide

For use in cucurbit vegetables, head and stem brassicas, leafy brassica greens, root and tuber vegetables, succulent and dried shelled peas, and sunflower.

EPA Reg. No. 7969-197

Active Ingredients:

Boscalid - (3-pyridinecarboxamide, 2-chloro-N-(4'-chloro(1,1'-biphenyl)-2-yl))	0.0%
Inert ingredients3	0.0%
Total1	00.0%

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. Refer to the Endura® fungicide main label for precautionary statements, first aid and personal protective equipment requirements. This supplemental label must be in the user's possession during application.

General Information

Endura provides optimum disease control when applied in a regularly scheduled protective fungicide program and is used in a spray program that rotates fungicides with different modes of action. Refer to the Enduramain label for general resistance management information and to the crop specific use recommendations and restrictions found in this label.

Application Information

Apply Endura according to the rate, timing, resistance management and adjuvant use recommendations in the Crop Specific Use Directions (Table A) 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, aerial equipment or through sprinkler irrigation systems. Refer to the **Endura** main label for specific instructions on these methods.

Restrictions and Limitations

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

Follow the restrictions and limitations outlined in the Crop Specific Restrictions and Limitations table (Table B) in this label for:

- Minimum pre-harvest interval (PHI)
- Maximum rate per acre
- Maximum number of applications
- Maximum rate per season
- Livestock grazing or feeding restrictions
- Aerial application restrictions

ACCEPTED with COMMENTS In EPA Letter Dated

AUG 2 0 2003

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the peaticide registered under EPA Reg. No.

Table A - Endura® fungicide Crop-Specific Use Directions

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)	
Cucurbit Vegetables Chayote Chinese waxgourd Citron melon Cucumber Gherkin Pumpkin Watermelon	Alternaria blight (Alternaria cucumerina) Gummy stem blight (Didymella bryoniae) Suppression only:	6.5 oz. per acre	4	26 oz. per acre	0 days	
Edible gourd Hyotan Cucuzza Chinese okra	Powdery mildew (Sphaerotheca fuliginea, Erysiphecichoracearum)					
Momordica spp. Balsam apple Balsam pear Bitter melon Chinese cucumber						
Muskmelon Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honey balls						
Majo melon Persian melon Pineapple melon Santa Claus melon Snake melon			applications of Endura phigher rate and the shorte			
Summer squash Crookneck squash Scallop squash Straightneck squash Vegetable marrow Zucchini	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.					
Winter squash Butternut squash Calabaza Hubbard squash Acorn squash Spaghetti squash						



Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)		
Brassica Leafy	Alternaria blight	6 to 9 oz. per acre	2	18 oz. per	0 days		
Vegetables:	(Black spot) (Altemaria spp.)			acre			
Head and Stem	ĺ	1	i				
Brassicas	Grey mold (Botrytis cinerea)			i.			
Broccoli	J i						
Chinese broccoli	Sclerotinia stem rot		1	1			
(gai lon)	(Sclerotinia						
Brussels sprouts	sclerotiorum, S. minor)	}					
Cabbage Chinese cabbage (napa)	Suppression only:						
Chinese mustard	Powdery mildew						
(gai choy)	(Erysiphe polygoni)	1			1		
Cauliflower Cavalo broccolo Kohlrabi	Rhizoctonia bottom rot (Rhizoctonia solani)						
	Application Directions: Begin applications of Endura prior to disease developmentand continue on a 7 to 14 day interval. Use the higher rate and the shorter interval when disease pressure high.						
	Resistance Managen than two (2) application		tential for developmen ason,	t of resistance	, do not make more		

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Сгор	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Brassica Leafy Vegetables: Leafy Brassica	Alternaria blight (Black spot) (Alternaria spp.)	6 to 9 oz. per acre	2	18 oz. per acre	14 days
Greens	Grey mold (Botrytis cinerea)				
Broccoli raab (rapini)	Sclerotinia stem rot (Sclerotinia				
Chinese cabbage (bok choy)	sclerotiorum, S. minor)				
Collards Kale Mizuna Mustard greens Mustard spinach Rape greens	Suppression only: Powdery mildew (Erysiphe polygoni) Rhizoctonia bottom rot (Rhizoctonia solani)				
	a 7 to 14 day interval. t	Use the higher rate ar ment: To limit the po	of Endura prior to dise nd the shorter interval wi stential for developmer eason.	hen disease pre	ssure is high.

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Alternaria leaf and pod spot	8 to 11 oz. per acre	2	22 oz. per acre	7 days
(Alternaria spp.)				
Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis grey mold (Botrytis cinerea)				
Cercospora leaf spot (Cercospora spp.)	į.			
Mycosphaerella blight (Mycosphaerella spp.)				
Powdery mildew (Erysiphe polygoni)				
Rust (Uromyces appendiculatus)				
White mold (Sclerotinia sclerotiorum)				
development or at the loconducive for disease of high. Resistance Managenthan two (2 applications	peginning of flowering development. Use the nent: To limit the pe s of Endura per seas	g and repeat on a 5 to 1- e higher rate and shorter otential for developments son.	4 day interval if or interval when on the control of resistance	conditions are disease pressure is e, do not make more
	Alternaria leaf and pod spot (Alternaria spp.) Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) Powdery mildew (Erysiphe polygoni) Rust (Uromyces appendiculatus) White mold (Sclerotinia sclerotiorum) Application Direction development or at the I conducive for disease chigh. Resistance Managen than two (2 applications	Alternaria leaf and pod spot (Alternaria spp.) Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) Powdery mildew (Erysiphe polygoni) Rust (Uromyces appendiculatus) White mold (Sclerotinia sclerotiorum) Application Directions: For optimal dise development or at the beginning of flowering conducive for disease development. Use the high. Resistance Management: To limit the puthan two (2 applications of Endura per seat	Alternaria leaf and pod spot (Alternaria spp.) Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) Powdery mildew (Erysiphe polygoni) Rust (Uromyces appendiculatus) White mold (Sclerotinia sclerotiorum) Application Directions: For optimal disease control, begin appendevelopment or at the beginning of flowering and repeat on a 5 to 1 conducive for disease development. Use the higher rate and shorter high. Resistance Management: To limit the potential for development than two (2 applications of Endura per season.	Alternaria leaf and pod spot (Alternaria spp.) Ascochyta blight (Phoma exigua, Ascochyta spp.) Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) Powdery mildew (Erysiphe polygoni) Rust (Uromyces appendiculatus) White mold (Sclerotinia sclerotiorum) Application Directions: For optimal disease control, begin applications of Endevelopment or at the beginning of flowering and repeat on a 5 to 14 day interval ficonducive for disease development. Use the higher rate and shorter interval when chigh. Resistance Management: To limit the potential for development of resistance

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Crop	Target Diseases	Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)	
Dried Peas Lentii <i>(Lens</i>)	Alternaria leaf and pod spot (Alternaria spp.)	8 to 11 oz. per acre	2	22 oz. per acre	21 days	
Pea (<i>Pisum</i>) Garden pea Green pea Pigeon pea	Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Mycosphaerella blight (Mycosphaerella spp.) Powdery mildew (Erysiphe polygoni) Rust (Uromyces appen diculatus) White mold (Sclerotinia sclerotiorum)					
	Ascochyta blight (Phoma exigua, Ascochyta spp.)	6 oz. per acre				
	Application Directions: For optimal disease control, begin applications of Endura 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 mo than two (2) applications of Endura per season. Restrictions: Do not use on cowpeas. Do not feed treated pea commodities to livestock.					

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

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Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Root and Tuber Vegetables Arrowroot Chinese artichoke Jerusalem artichoke Edible canna Chayote (root) Ginger Leren Potato Sweet potato Turmeric	Early blight (Alternaria solani) Cercospora leaf spot (Cercospora spp.) Rust (Coleosporium ipomoeae) Septoria leaf spot (Septoria spp.)	2.5 to 4.5 oz. per acre	4	20 oz. per acre	30 days
Yam bean True yam	development and repr Use the higher rate ar potato, begin applica be made 14 to 21 da Resistance Manag than four (4) application before alternating to a	eat on a 7 to 14 day ind shorter interval witions just prior to row ays later if conditions ement: To limit the pons of Endura per sea a labeled fungicide w	se control, begin applicanterval if conditions a when disease pressu closure or at the first is continue to be favor potential for development. Do not make mowith a different mode of the control of the	re conducive for dise re is high. For Scler sign of disease. A sec rable for disease dev ment of resistance, d re than two (2) applica of action for at least	ease development. Totinia white mold on cond application may relopment. To not make more ations of Endura

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Root and Tuber Vegetables Carrot Ginseng Horseradish Skirret	development and re Use the shorter into Resistance Manag than five (5) application before alternating to	peat on a 7 to 14 day erval when disease ement: To limit the ons of Endura per se a labeled fungicide	y interval if conditions pressure is high. potential for develor ason. Do not make n	applications of Endi applications of Endi are conducive for di ment of resistance, nore than two (2) application for at least of	do not make more
<u> </u>	1				

Table A - Endura® fungicide Crop-Specific Use Directions (CONT):

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)			
Sunflower	Atternaria leaf spot (Atternaria spp.) Botrytis grey mold (Botrytis cinerea) Cercospora leaf spot (Cercospora spp.) Powdery mildew (Erysiphe cichoracearum) Rust (Puccinia helianthi) Septoria leafspot (Septoria helianthi) Sclerotinia head rot (Sclerotinia	4.5 to 9 oz. per acre	2	18 oz. per acre	21 days			
	development and development. Use Resistance Manag than five (5) applica	Application Directions: For optimal disease control, begin applications of Endura 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. 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.						

Table B - Endura® fungicide Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Rate per Acre per Application (oz.)	Maximum Number of Applications per Season	Maximum Rate per Acre per Season (oz.)	Livestock Grazing or Feeding	Aircraft Application
Cucurbit ¹ Vegetables Group: Cantaloupe, Cucumber, Melon, Squash, Pumpkin, Watermelon	О	6.5	4	26	NA²	Yes
Head and Stem Brassicas † : Cabbage Broccoli Cauliflower	0	9	2	18	NA	Yes
Leafy Brassica Greens ¹	14	9	2	18	NA	Yes
Succulent Peas (edible-podded and shelled)	7	11	2	22	No	Yes
Dried Shelled Peas	21	11	2	22	No	Yes
Root and Tuber Vegetables: Arrowroot, chinese artichoke, Jerusalem artichoke, Edible canna, Chayote (root), Ginger, Leren, Potato, Sweet potato, Turmeric, Yam bean, True yam	30	4. 5	4 (at 4.5 oz./acre rate) 2 (at 10 oz./acre rate)	20	No	Yes
Root and Tuber Vegetables: Carrot, Ginseng, Horseradish, Skirret	0	4.5	5	22.5	No	Yes
Sunflower	21	9	2	18	Yes	Yes

For a complete list of crops within a crop group, see Table A. Endura Crop-Specific Use Directions.

NA = Not applicable

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Registrant Information: BASF Corporation PO Box 13528 26 Davis Drive Research Triangle Park, NC 27709

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Agricultural Products