

100-1098

11/09/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

NOV 9 2001

Michele A. Schulz
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

Subject: Abound® Flowable Fungicide
EPA Registration Number 100-1098
Your amended labeling dated November 2, 2001

Dear Ms. Schulz,

We have reviewed the subject amended labeling, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended. The amended labeling is acceptable, provided that you comply with the following conditions.

- A. Make the following changes to the label.
1. In the "HAZARDS TO HUMANS AND DOMESTIC ANIMALS" section, after "...and chemical resistant gloves made of any waterproof material" add "such as polyvinyl chloride, nitrile rubber or butyl rubber".
 2. In the "DIRECTIONS FOR APPLICATION", in each crop section's "Remarks" block is a statement near the end that generally reads "Do not apply more than [x.xx] quarts [equivalent pounds of active ingredient] per acre per season." In each of these the close-parentheses character is either lacking or is inappropriately placed. This must be corrected, in each case, by either adding or moving the close-parentheses after "ingredient".
- B. You submit one copy of your final printed label before you release product bearing this amended labeling for shipment.

Two additional comments follow. In the "Tropical Fruit" subsection of the "DIRECTIONS FOR APPLICATION" section it appears that "Tamarind" has been inadvertently dropped and should be added back. In the "Berries" subsection of the same section the "Target Diseases" listed are Botryosphaeria Canker, Powdery Mildew, and Septoria Blight, while in the petition the diseases listed are Mummyberry, Alternaria Fruit Rot, Phomopsis Stem Canker, and Anthracnose Fruit Rot. The proper diseases to list here should be checked with IR-4.

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

Sincerely yours,

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Cynthia L. Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

• - 3/10

ABOUND® Flowable
Fungicide

Broad spectrum fungicide for control of plant diseases

SUPPLEMENTAL LABEL

ACTIVE INGREDIENT:

Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy)
pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate* 22.9%

INERT INGREDIENTS: 77.1%

TOTAL 100.0%

Contains 2.08 lbs of active ingredient per gallon

*IUPAC

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

EPA REG NO. 100-1098
EPA EST. NO.

Product of the UK for distribution by:

Syngenta

SCP 100-xxxx

Net Weight / U.S. Standard Measure

ACCEPTED
with COMMENTS
In EPA Letter Dated:

NOV 9 2001

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

100-1098

FIRST AID	
If on skin or Clothing	-Take off contaminated clothing. -Rinse skin immediately with plenty of water for 15-20 minutes. -Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOTLINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF ABSORBED THROUGH SKIN. Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemically 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

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

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 ground water 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 ground water contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

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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 should 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. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Syngenta, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall Syngenta or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **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 limitations of warranty and of 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.

Use of ABOUND Flowable Fungicide through airblast application equipment on grapes is prohibited in the following townships and boroughs of Erie County, Pennsylvania: North East, Harborcreek, Lawrence Park, Erie, Presque Isle, Mill Creek, Fairview, Girard and Springfield.

This prohibition is intended to help eliminate phytotoxicity problems with apples observed in this geographic location.

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

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 USES:

Commercial turf farm use (Not for use in California)

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), notification 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.

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:

- Coveralls

- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
-
- Shoes plus socks

NON-AGRICULTURAL USES: Golf Courses (Not for use in California)

For use to control diseases on turf on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated with ABOUND® Flowable is dry.

STORAGE AND DISPOSAL

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

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

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or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Plastic Containers: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

FOR BULK AND MINIBULK CONTAINERS:

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH ABOUND® FLOWABLE. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than ABOUND Flowable will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

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

GENERAL INFORMATION

ABOUND Flowable Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. ABOUND Flowable may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered, crop protection products. All applications should be made according to the use directions that follow.

GENERAL USE PRECAUTIONS

Do not graze or feed clippings from treated turf areas to animals. Crops in this label may be planted immediately after last treatment. Do not plant other crops within 45 days after last application.

DIRECTIONS FOR APPLICATION

Crop	Target Diseases	Use Rate fl oz product/A (lb a/A)	Remarks
<p>Berries, bushberry subgroup Blueberry Currant Elderberry Gooseberry Huckleberry</p> <p>Lingonberry Juneberry Salal</p>	<p>Botryosphaeria canker (<i>Botryosphaeria spp</i>)</p> <p>Powdery mildew (<i>Sphaerotheca spp</i>)</p> <p>Septoria blight (<i>Septoria spp</i>)</p>	<p>6.2-15.4 (0.1-0.25)</p>	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.44 quarts (0.75) lb active ingredient per acre per season.</p> <p>May be applied the day of harvest.</p>
<p>Brassica Leafy Greens</p>	<p>White rust (<i>Albugo candida</i>)</p> <p>Black spot (<i>Alternaria spp</i>)</p> <p>Soilborne Diseases</p> <p>Seedling root rot, basal stem rot (<i>Rhizoctonia solani</i>)</p>	<p>6.2-15.4 (0.1-0.25)</p>	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p>Do not apply more than 1.44 quarts (0.75) lb active ingredient per acre per season.</p> <p>May be applied the day of harvest.</p>

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Crop	Target Diseases	Use Rate fl oz product/A (lb a/A)	Remarks
Grasses (grown for seed)	Rust (<i>Puccinia spp</i>) Powdery mildew (<i>Erysiphe graminis</i>) Ergot Stalks	6.2-12.4 (0.1-0.2)	<p>Integrated Pest (Disease) Management: ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation, crop rotation, and fertility.</p> <p>Resistance Management: Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than two (2) applications of ABOUND per acre per year.</p> <p>Application Directions: ABOUND applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.44 quarts (0.75) lb active ingredient per acre per season.</p> <p>Do not feed treated straw, seed, or screenings to livestock.</p> <p>May be applied up to 8 days prior to harvest (swathing).</p>
Mint (Fresh)	Rust (<i>Puccinia menthae</i>) Powdery mildew (<i>Erysiphe spp</i>) Soilborne Diseases Seedling root rot, basal stem rot (<i>Rhizoctonia solani</i>)	6.2-15.4 (0.1-0.25)	<p>Integrated Pest (Disease) Management: ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p>Resistance Management: Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of ABOUND per acre per crop year.</p> <p>Application Directions: ABOUND applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p>Do not apply more than 1.44 quarts (0.75) lb active ingredient per acre per season.</p> <p>May be applied the day of harvest for fresh mint.</p>

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Mint (For processing into mint oil)	Rust (<i>Puccinia menthae</i>) Powdery mildew (<i>Erysiphe spp</i>) Soilborne Diseases Seedling root rot, basal stem rot (<i>Rhizoctonia solani</i>)	6.2-15.4 (0.1-0.25)	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p>Do not apply more than 1.44 quarts (0.75) lb active ingredient per acre per season.</p> <p>May be applied up to 7 days prior to harvest.</p>
Pepper Bell Pepper Non-Bell Pepper Sweet Non-Bell Pepper Eggplant Okra	Powdery mildew (<i>Sphaerotheca spp</i>) Anthracnose (<i>Colletotrichum spp</i>)	6.2-15.4 (0.1-0.25)	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.92 quarts (1.0 lb active ingredient per acre per season.</p> <p>May be applied the day of harvest.</p>

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Strawberry	<p>Anthracnose (<i>Colletotrichum fragariae</i>)</p> <p>Powdery mildew (<i>Sphaerotheca macularis</i>)</p> <p>Soilborne Diseases Seedling root rot, basal stem rot (<i>Rhizoctonia solani</i>)</p>	6.2-15.4 (0.1-0.25)	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than four (4) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p>Do not apply more than 1.92 quarts (1.0 lb active ingredient per acre per season).</p> <p>May be applied the day of harvest.</p>

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Crop	Target Diseases	Use Rate fl oz product/A (lb a/A)	Remarks
Tropical Fruit Acerola Atemoya Avocado Biriba Canistel Cherimoya Custard apple Feijoa Guava Illama Jaboticaba Jackfruit Longan Loquat Lychee Mango Papaya Passionfruit Pawpaw Persimmon Pulasan Pummello Rambutan Sapodilla Sapote, black Sapote, mamey Sapote, white Soursop Star apple Starfruit Sugar apple Spanish lime Uniq fruit,	Anthracnose (<i>Colletotrichum spp</i>) Rust (<i>Puccinia spp</i>) Cercospora leaf spot (<i>Cercospora spp</i>) Powder (<i>Erysiphe spp</i>) Soilborne Diseases Seedling root rot, basal stem rot (<i>Rhizoctonia solani</i>)	6.2-15.4 (0.1-0.25)	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than six (6) applications of ABOUND per acre per crop year.</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under "GENERAL INFORMATION" section.</p> <p>Do not apply more than 2.88 quarts (1.5 lb active ingredient per acre per season.</p> <p>May be applied the day of harvest.</p>

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Crop	Target Diseases	Use Rate fl oz product/A (lb a/A)	Remarks
Watercress	Cercospora leaf spot (<i>Cercospora spp</i>)	6.2-15.4 (0.1-0.25)	<p><u>Integrated Pest (Disease) Management:</u> ABOUND should be integrated into an overall disease management strategy that includes varieties with disease tolerance, insect control and proper fertilization..</p> <p><u>Resistance Management:</u> Do not apply more than two sequential sprays of ABOUND before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of ABOUND per acre per cutting (2 cuttings per year).</p> <p><u>Application Directions:</u> ABOUND applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.44 quarts per cutting</p> <p>Do not apply more than 2.88 quarts (1.5) lb active ingredient per acre per season.</p> <p>May be applied up to 7 days prior to harvest.</p>

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For non-emergency (e.g., current product information) call
Syngenta Crop Protection at 1-800-334-9481

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

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