

PM 23

45639-161

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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FEB 7 1997

Nang-Ly Chow, Ph.D.  
AgrEvo USA Company  
Little Falls Centre One  
2711 Centerville Road  
Wilmington, DE 19808

Dear Dr. Chow:

Subject: Revised Labeling - Add Mixing Instructions;  
Add "Preconditioning" Treatment in California;  
Rearrange Existing Label Sections;  
Delete List of States Where Product May Be Applied  
Ginstar EC  
EPA Registration No. 45639-161  
Your Submission Dated January 21, 1997

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Add the appropriate Net Contents statement.
- 2) Add the company name and address to the labeling.
- 3) The last statement of the User Safety Recommendations, reading "As soon as possible, wash thoroughly and change into clean clothing", was inadvertently placed outside of the User Safety Recommendations box. It should be relocated so that it appears as the last statement within the box.

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

DE 385-7546 FHB/PM 23		CONCURRENCES					
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	2/7/97						

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FOR AGRICULTURAL USE ONLY

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
FEB 7 1997

# Ginstar<sup>®</sup> EC

## COTTON DEFOLIANT

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
45639-161

ACTIVE INGREDIENTS:	Percent by Weight
Thidiazuron:	
N-phenyl-N'-1,2,3-thidiazol-5-ylurea	12%
Diuron:	
3-(3,4-dichlorophenyl)-1,1-dimethylurea	6%
INERT INGREDIENTS:	82%
<b>TOTAL</b>	<b>100%</b>

Contains 1 lb. Thidiazuron per gallon and 0.5 lb. Diuron per gallon.

EPA Reg. No. 45639-161 EPA Est. No. 407-IA-2

Protected by U.S. Patent Nos. 4,294,605 and 4,613,354

### KEEP OUT OF REACH OF CHILDREN DANGER — PELIGRO

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

#### STATEMENT OF PRACTICAL TREATMENT

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF IN EYES:** Hold eyelids open and immediately flush with a steady, gentle stream of water for at least 15 minutes. Call a physician.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate use of gastric lavage.

**IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING 800-228-5635, EXT. 202.**

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Causes burns. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin-contact may cause allergic reactions in some individuals.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers (other than mixers and loaders) must wear:

- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

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**Mixers and loaders must wear:**

- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or butyl rubber gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from the target area.

**STORAGE AND DISPOSAL**

**STORAGE:** Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame. Do not contaminate food or foodstuffs.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other procedures approved by state and local authorities.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

In case of spillage, cover with an absorbent such as soda ash, lime, clay, or sawdust. Sweep up and bury. Wash area thoroughly with detergent and water.

**DO NOT REUSE EMPTY CONTAINER**

**GENERAL INFORMATION**

GINSTAR® EC is a defoliant to be used as a pre-harvest aid for cotton. GINSTAR EC has performed well under both cool and warm weather conditions.

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### USE PRECAUTIONS

Do not apply this product through any type of irrigation system.

Do not feed foliage from treated cotton plants or gin trash to livestock.

Do not plant the following crops earlier than the specified periods after application of GINSTAR EC:

small grains, sorghum, corn, ..... two (2) months  
or root crops (except carrots, onions)

legumes (including alfalfa), ..... two (2) months  
or leafy vegetables (except lettuce)

cole crops, garlic, safflower, ..... two (2) months  
tomatoes and watermelon.

carrots ..... three (3) months

onions ..... four (4) months

cantaloupe, honeydew melon/ ..... five (5) months

casaba melon, muskmelon, and peppers

lettuce ..... two (2) months  
with deep-plowing of soil  
(12-15 inches); or nine (9) months  
when soil is only disced (4-6 inches)

**Cover Crops:** Small grains and/or legumes intercropped within the cotton crop to which GINSTAR EC will be applied may only be used as cover crops and may not be harvested for food or feed. Small grains and/or legumes planted earlier than two (2) months following GINSTAR EC application may only be used as cover crops and may not be harvested for food or feed.

Do not plant any other rotational crops (except those specified above) within one year of application of GINSTAR EC.

Do not use immature crops for food or feed.

Do not allow spray drift to contact trees or crops other than the target crop of mature cotton, or cotton you desire to defoliate, as this product may injure or defoliate other crops.

Particular care should be taken when applying GINSTAR EC adjacent to lettuce, citrus, or cantaloupe.

### PRACTICES TO LOWER THE POTENTIAL FOR DRIFT ONTO NON-TARGET CROPS

During applications, particularly under windy conditions, GINSTAR EC may drift to non-target crops.

To help reduce the drift potential, use the following practices:

- Do not apply GINSTAR EC by ground or air when wind speeds exceed ten (10) miles per hour at the time of application. Follow local recommendations if wind speeds of less than ten (10) miles per hour are specified in those recommendations.
- Use of low nozzle pressure (20-30 psi) is recommended.
- Do not apply GINSTAR EC when a temperature inversion is present or when conditions favor an inversion prior to completing application(s).
- Additionally, do not apply GINSTAR EC by air within one-half (1/2) mile of lettuce. Do not apply GINSTAR EC by ground equipment within 100 feet of lettuce.

### PRACTICES TO LOWER DRIFT POTENTIAL ONTO NON-TARGET CROPS IN THE RIO GRANDE VALLEY OF TEXAS

To help reduce the drift potential, use the following practices:

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- Do not apply GINSTAR EC by ground or air when wind speeds exceed ten (10) miles per hour at the time of application. Follow local recommendations if wind speeds of less than ten (10) miles per hour are specified in those recommendations.
  - Use of low nozzle pressure (20–30 psi) is recommended.
  - Do not apply GINSTAR EC when a temperature inversion is present or when conditions favor an inversion prior to completing application(s).
  - Use the largest nozzle orifice possible which permits proper deposition and coverage of product.
  - In addition, for citrus crops, do not apply GINSTAR EC by air when citrus in flush is within five (5) miles downwind of the point of application. Do not apply GINSTAR EC by ground when citrus in flush is within one-half (1/2) mile downwind of the point of application.

### DIRECTIONS FOR USE

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

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), 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 24 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 worn over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or butyl rubber gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

Refer to supplemental labeling for important additional use directions. Applicable supplemental labeling must be in the possession of the user at the time of application.

**TIME OF APPLICATION:** Apply GINSTAR EC Cotton Defoliant only to mature cotton plants when the last boll you expect to harvest is mature. A boll can be described as "mature" when it is too hard to be dented when squeezed between thumb and fingers, is difficult to slice with a sharp knife, and/or when seeds cut in cross sections have fully developed cotyledons, as evidenced by an absence of jelly within the seed.

Apply GINSTAR EC at least 5 days prior to anticipated harvest.

**PRECAUTION:** The addition of adjuvants can cause desiccation and/or leaf freezing during periods of high temperature. The use of compounds that desiccate leaf tissue is not recommended.

**APPLICATION:** GINSTAR EC may be applied by air or ground equipment. Apply specified dosages in 10–25 gallons of spray per acre with ground equipment or 2–10 gallons per acre by aircraft.

**DOSAGE:** Apply GINSTAR EC at a rate of 0.4 to 1.0 pint of formulated product per acre prior to harvest (see Application Rate Table below). At some locations, following the initial GINSTAR EC application, it may be necessary to make a second application of Ginstar EC (**DO NOT** exceed 1.0 pint/acre per season) or an application of a standard defoliant.

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**MIXING INSTRUCTIONS:** Fill the spray tank with one-half the required amount of water. Add the proper amount of Ginstar EC and start the spray tank agitator. Finish filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

**PRECONDITIONING FOR USE IN CALIFORNIA ONLY:** Ginstar EC may be used as a preconditioner to enhance the activity of a defoliant application. Apply Ginstar EC at 4-6 oz formulated product per acre. Apply in 10-25 gallons of water per acre by ground or 2-10 gallons of water per acre by aerial application. Timing of application is recommended to be 7-10 days prior to a defoliation application of Ginstar EC (see Application Rate Table) or the use of another defoliant. Refer to the second product label prior to use for complete recommendations.

**GINSTAR EC APPLICATION RATE TABLE**

To Achieve an Application Rate of:	Use This Amount of GINSTAR EC	At the Indicated Rate, One Gallon of GINSTAR EC Will Treat:
0.075 lbs. ai/Acre	0.4 pts./A (6.4 oz./A)	20 Acres
0.10 lbs. ai/Acre	0.55 pts./A (8.8 oz./A)	15 Acres
0.15 lbs. ai/Acre	0.8 pts./A (12.8 oz./A)	10 Acres
0.1875 lbs. ai/Acre	1.0 pts./A (16.0 oz./A)	8 Acres

**DO NOT APPLY MORE THAN 1.0 PINT OF GINSTAR EC PER ACRE PER SEASON.**

**CLEANOUT INSTRUCTIONS**

Do not allow the spray solution to dry in the application equipment. Immediately following application, clean all equipment (mix tanks, pumps, transfer lines, application tanks, sumps, booms, nozzles, and all related equipment) thoroughly with cleaner and water. Refer to AgrEvo technical information bulletins for tank cleaners which may be helpful in removing fresh residues.

Should small quantities of GINSTAR EC remain in inadequately cleaned equipment, they may be released during subsequent applications and may cause damage to crops. AgrEvo USA Company accepts no liability for damage to crops due to inadequately cleaned equipment.

**IMPORTANT: READ BEFORE USE**

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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