

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington D C 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Jamin Huang Bayer CropScience PO Box 12014 2 Alexander Drive Research Triangle Park NC 27709

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JUL 272012

Subject Label amendment voluntarily adding corrosive in the Precautionary Statement section at the request of CDPR Ginstar EC Cotton Defoliant EPA Reg No 264-634 Application Dated July 2 2012

Dear Dr Huang

The labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) as amended is acceptable

A stamped copy of your label is enclosed for your records This label supersedes all previously accepted labels You must submit one (1) copy of the final printed label before you release the product for shipment Products shipped after eighteen (18) months from the date of this letter must bear the new revised label If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA §6(e) Your release for shipment of the product constitutes acceptance of these conditions

If you have any questions please contact Grant Rowland at (703) 347 0254 or at Rowland Grant@epa gov

Sincerely Kathryn Montague

Product Manager 23 Herbicide Branch Registration Division (7505P)

Ginstar® EC COTTON DEFOLIANT

For Agricultural Use Only

ACTIVE INGREDIENTS Thidiazuron N phenyl N 1 2 3 thidiazol 5 ylurea

Diuron 3 (3 4 dichlorophenyl) 1 1 dimethylurea

INERT INGREDIENTS

TOTAL

Contains 1 lb Thidiazuron per gallon and 0 5 lb Diuron per gallon

EPA Reg No 264 634

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)

For <u>MEDICAL</u> And <u>TRANSPORTATION</u> Emergencies <u>ONLY</u> Call 24 Hours A Day 1 800 334 7577 For PRODUCT USE Information Call 1 866 99BAYER (1 866 992 2937)

FIRST AID

IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 20 minutes Remove contact lenses if present after the first 5 minutes then continue rinsing 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 20 minutes Call a poison control center or doctor for treatment advice
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
IF SWALLOWED	Immediately call a poison control center or doctor for treatment advice Do not induce vomiting unless told to do so by a poison control center or doctor Have person sip a glass of water if able to swallow Do not give anything by mouth to an unconscious person
Have the produc	For MEDICAL Emergencies Call 24 Hours A Day 1 800 334 7577 t container or label with you when calling a poison control center or doctor or going for treatmen
NOTE TO PHYSICI	AN Probable mucosal damage may contraindicate the use of gastric lavage

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive Causes irreversible eye damage Causes skin irritation Harmful if inhaled or absorbed through skin Avoid contect with eyes skin clothing and avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause sillergic reactions in some individuals

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of barrier laminate or butyl rubber. If you want more options follow

the instructions for category B on an EPA chemical resistance category selection chart All pilots must wear

Long sleeved shirt and long pants

Shoes plus socks

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nds the Foieral Insecticide 17 \$ 120 d 90cen icide Act 12 ided, for as pest cide 13 krest ray 14 P e Vn 204-634

12%

6%

82%

100%

2/7

EPA Est No 3125 MO 001

All mixers loaders other applicators and other handlers must wear

Coveralis worn over short sleeved shirt and short pants

Socks plus chemical resistant footwear

Chemical resistant gloves

Protective eyewear (such as goggles or face shield or shielded safety glasses)

Chemical resistant apron when mixing loading or cleaning equipment or spills

Chemical resistant headgear for overhead exposure

A NIOSH approved particulate filtering respirator equipped with N R or P class filter media. The respirator should have a NIOSH approval number prefix TC 84A. It is recommended that you require the respirator wearer be fit tested, and trained in the use maintenance and limitations of the respirator.

See engineering controls for additional requirements

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 exist use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170 240(d)(6)] Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the WPS for Agricultural Pesticides [40 CFR 170 240(d)(5)] for dermal protection. In addition flaggers must wear long sleeved shirt long pants shoes and socks

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/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

 Remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

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 when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from the target area. Apply this product only as specified on this label.

This product may contaminate water through drift of spray in wind. This product has a high 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 reduces such as ponds streams and springs will reduce the potential for contamination of water from runoff. Runoff of the product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices vill educe this products contribution to surface water contamination. This chemical has properties and characteristics associated with chemical do cotted in ground water. Use of this chemical in areas where soils are permeable particularly where the water table is shallow may could in groundwater contamination.

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STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE 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 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 Non refillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container / 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 Then offer for recycling if available or puncture and dispose of in sanitary landfill or by other procedures approved by State and local authorities

DO NOT REUSE EMPTY CONTAINER

PHYSICAL OR CHEMICAL HAZARDS

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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

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.

Use of this product in certain portions of California Oregon and Washington is subject to the January 22 2004 Order for injunctive relief in Washington Toxics Coalition et al v EPA C01 0132C (W D WA) For further information please refer to www epa gov/espp/wtc/

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

INFORMATION

GINSTAR® EC is a defoliant to be used as a pre-harvest aid for cotton GINSTAR® EC Cotton Defoliant ha pcr ormed well ur aer both cool and warm weather conditions

USE PRECAUTIONS

Do not apply this product through any type of irrigation system

Rainfall within 12 hours after application can reduce the effectiveness of GINSTAR® EC Cotton Defoliant

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	one (1) month
root crops (except carrots onions)	two (2) months
legumes (including alfalfa) or leafy vegetables (except lettuce)	two (2) months

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two (2) months with deep plowing of soil (12--15 inches) or nine (9) months when soil is **only disked** (4-6 inches) **Cover Crops** Small grains and/or legumes intercropped within the cotton crop to which GINSTAR® EC Cotton Defoliant 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

Maximum of 2 applications per year

Minimum retreatment interval is 21 days

SPRAY DRIFT MANAGEMENT FOR GROUND AND AERIAL APPLICATIONS

Use best practices to avoid drift to all other crops and non target areas Do not apply when conditions favor drift from target areas The interaction of many equipment and weather related factors determine the potential for spray drift Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive precautions to avoid drift including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift however it may also decrease weed control.

In general a decrease in droplet size or increase in wind speed at the time of application will result in risk to non target organisms. Alternatively if droplet size is coarser 01 wind speeds are lower exposures due to drift would be reduced

Make aerial or ground applications only when the wind speed is less than or equal to 10 miles per hour

Do not make aerial or ground applications into temperature inversions

Apply with medium or coarser spray (according to ASAE standard 572) for standard nozzles

Additional requirements for ground applications

When applying to crops apply with nozzle height no more than 2 feet above the ground or crop canopy

Additional requirements for aerial applications

The spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 75 / of the wingspan or 90 / of rotor blade diameter

Use upwind swath displacement

When applying to crops do not release spray at a height greater than 6 to 10 feet above the ground or crop canopy

DO NOT APPLY BY AIR IF SENSITIVE NON TARGET CROPS ARE WITHIN 100 FEET OF THE APPLICATION SITE EXCEPT AS NOTED BELOW FOR LETTUCE AND CITRUS

ADDITIONAL PRACTICES TO LOWER THE POTENTIAL FOR DRIFT ONTO NONTARGET CROPS

During applications particularly under windy conditions GINSTAR® EC Cotton Defoliant may drift to nontarget crops. To help reduce the drift potential use the following practices

Do not apply GINSTARO EC by ground or air when wind speeds exceed ten (10) miles per hour at the time of application. Fallow 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

Use the largest nozzle orifice possible which permits proper deposition and coverage of product

Do not apply GINSTAR® EC when a temperature inversion is present or when conditions favor an inversion prior to completing application(s)

CARE MUST BE TAKEN WHEN APPLYING GINSTAR® EC ADJACENT TO LETTUCE CITRUS OR CANTALOUPE

Do not apply GINSTARO EC by air within one half (/) mile of lettuce or cantaloupe Do not apply GINSTAR® EC by ground equipment within 100 feet of lettuce

In addition for citrus crops particularly in the Rio Grande Valley of Texas do not apply GINSTAR® EC by air when citrus in Lish is within five (5) miles downwind of the point of application. Do not apply GINSTAR® EC by ground when citrus in flush is within onc half (1/) mile downwind of the point 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

Use of GINSTAR® EC Cotton Defoliant under extremely cool or adverse conditions can result in less than desirable defoliation and/or growth inhibition

APPLICATION

GINSTAR® EC Cotton Defoliant 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 Cotton Defoliant at a rate of 0.4 to 1.0 pint of formulated product per acre prior to harvest (see *Application Rate Table*) 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

MIXING INSTRUCTIONS

Fill the spray tank with one half of the required amount of water Add the proper amount of GINSTAR® EC Cotton Defoliant 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

GINSTARO EC Cotton Defoliant 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 7–10 days prior to a defoliation application of GINSTARO EC (see *Application Rate Table*) or the use of another defoliant. Refer to the second product label prior to use for complete recommendations.

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 al/Acre	0 4 pts /A (6 4 oz /A)	20 Acres
0 10 lbs aı/Acre	0 55 pts /A (8 8 oz /A)	15 Acres
0 15 lbs al/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

GINSTAR® EC COTTON DEFOLIANT APPLICATION RATE TABLE

DO NOT APPLY MORE THAN 1 0 PINT OF GINSTAR® EC PER ACRE PER SEASON

TANK MIX OF GINSTAR® EC PLUS FINISH® 6 PRO

The tank mix of GinstarO EC Cotton Defoliant plus Finish® 6 Pro is recommended to improve overall defoliation and a an aid in accelerating the opening of mature unopened cotton bolls Best activity will be obtained where the tank mix is applied to mature cotton plants. Do not apply tank mix before sufficient unopened bolls have matured to produce the desired cotton yield

For cotton produced in non arid conditions apply Ginstar® EC Cotton Defoliant at a rate of 3 2 to 6 4 fluid ounces pe acre plus Tinish® 6 Pro at a rate of 21 to 42 fluid ounces per acre

For cotton produced in and conditions apply GinstarO EC Cotton Defoliant at a rate of 6.4 to 16 fluid ounces per acre plus FinishO 6 Pro at a rate of 21 to 42 fluid ounces per acre

CLEANOUT INSTRUCTIONS

Do not allow the spray solution to dry in the application equipment Immediately following application clean all equipment (mix ank pumps transfer lines application tanks sumps booms nozzles and all related equipment) thoroughly with commercial tank cleaner and water Consult your State Extension cotton specialist for recommended tank cleaners and cleaning procedures

The procedure for removing dried residues in the application equipment requires allowing the diluted solution of a commercial tank cleaner to stand in equipment filled to capacity for 7 days followed by thorough flushing

Should small quantities of GINSTAR® EC Cotton Defoliant remain in inadequately cleaned equipment they may be released during subsequent applications and may cause damage to crops. To the extent consistent with applicable law Bayer CropScience accepts no liability for damage to crops due to inadequately cleaned equipment.

IMPORTANT READ BEFORE USE

Read the entire Directions for Use Conditions Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks 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 the manner of use or application all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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NET CONTENTS 2 5 GALLONS

Produced For

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Bayei CiopScience

Bayer CropScience LP P O Box 12014 2 T W Alexander Drive Research Triangle Park North Carolina 27709 1 866 99BAYER (1 866 992 2937)

Ginstar EC (PENDING) 06/29/12