

 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>	<p>EPA Reg. Number: <b>66330-344</b></p>	<p>Date of Issuance: <b>JUL 13 2006</b></p>
	<p>Term of Issuance: <b>Conditional</b></p>	
	<p>Name of Pesticide Product: <b>Thidiazuron-Diuron SC</b></p>	
<p>Name and Address of Registrant (include ZIP Code): <b>Arysta Lifescience North America Corporation 15401 Weston Pkwy Ste. 150 Cary, NC 27513</b></p>		
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.</li> <li>2. Submit within one year of the date of this registration notice, storage stability (830.6317) and corrosion characteristics (830.6320) studies.</li> </ol>		
<p>Signature of Approving Official: <i>Joanne I. Miller</i></p> <p>Joanne I. Miller, Product Manager (23) Herbicide Branch, Registration Division (7505P)</p>	<p>Date: <b>JUL 13 2006</b></p>	

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EPA Reg. No. *66330-344*

3. Make the following label changes before you release the product for shipment:

- a. Add your EPA establishment number and net contents to the label.
- b. Revise the EPA Registration Number to read, "EPA Reg. No. *66330-344*".

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller  
Product Manager (23)  
Herbicide Branch  
Registration Division (7505P)

Enclosure

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# THIDIAZURON-DIURON SC

## COTTON DEFOLIANT

For Agricultural Use Only

ACTIVE INGREDIENTS: Thidiazuron: N-phenyl-N'-1,2,3-thiazol-5-ylurea*	12%
Diuron: 3-(3,4-dichlorophenyl)-1,1-dimethylurea*	6%
Other Ingredients:	82%
<b>TOTAL</b>	<b>100%</b>

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

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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.)

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>EMERGENCY NUMBERS:</b>	
<ul style="list-style-type: none"> <li>• Transportation or spill, call CHEMTREC 800-424-9300.</li> <li>• Human health, 800-832-HELP (4357).</li> <li>• Animal health, call ASPCA at 800-345-4735.</li> </ul>	

SEE INSIDE (SIDE PANEL) FOR ADDITIONAL PRECAUTIONS AND USE DIRECTIONS

EPA Reg. No. 66330-ADxxxxxx

EPA Est. No. 51036-GA-001  
NET CONTENTS: \_\_\_\_\_

Manufactured by  
Arysta LifeScience North America Corporation  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:  
JUL 13 2006

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

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco..

**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

**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 treated areas.

**GENERAL INFORMATION**

THIDIAZURON-DIURON SC is a harvest aid for cotton, used for leaf removal prior to harvest. THIDIAZURON-DIURON SC can be applied in most weather conditions, both warm and cool.

**USE PRECAUTIONS**

This product is not to be applied through any type of irrigation system. Effectiveness of THIDIAZURON-DIURON SC will be reduced if rainfall occurs within 12 hours post application. Foliage from treated plants or gin trash is not to be fed to livestock.

**Rotation to the following crops requires the minimum specified periods below after the last application of THIDIAZURON-DIURON SC:**

- small grains, sorghum, corn, or root crops (except carrots, onions).....two (2) months
- legumes (including alfalfa) or leafy vegetable (except lettuce).....two (2) months
- cole crops, garlic, safflower, tomatoes, and watermelon.....two (2) months
- carrots.....three (3) months
- onions.....four (4) months

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cantaloupe, honeydew melon/casaba melon, muskmelon, or peppers .....five (5) months  
 lettuce..... when soil has been deep-plowed (12-15 inches) .....two (2) months  
 OR lettuce ..... when soil is only disced (4-6 inches) ..... nine (9) months  
 All other crops.....twelve (12) months

**Special Note for inter-cropped grains and legumes** planted either as cover crops or planted into treated fields before the minimum two (2) month plant back time after the final THIDIAZURON-DIURON SC application: Any such crops are prohibited for use as feed or food and may be used only as cover crops.

Immature crops should not be used for food or feed.

**Prevent spray drift from contacting crops other than mature cotton, since this product may defoliate or injure other plant species.**

Mixtures with organophosphates can increase nontarget crop phytotoxicity. Additional care should be exercised when lettuce, citrus, cantaloupes or any other edible crops are adjacent to THIDIAZURON-DIURON SC treated cotton fields.

**PROCEDURES TO LOWER SPRAY DRIFT POTENTIAL ONTO NONTARGET CROPS**

Under windy weather conditions, applications of THIDIAZURON-DIURON SC may drift to non-target crops.

The following procedures can help reduce the potential for drift:

- If wind speeds top ten (10) miles per hour at the application site, do not make aerial or ground applications of THIDIAZURON-DIURON SC.
- Nozzle pressure of 20-30 psi is recommended.
- Do not apply this product during a temperature inversion because drift potential is high. In addition, do not apply this product if the development of a temperature inversion appears likely during the application period.
- This product should not be applied by ground within 100 feet or by air within 0.5 mile of lettuce.

**RIO GRANDE VALLEY OF TEXAS PROCEDURES TO LOWER SPRAY DRIFT POTENTIAL**

The following procedures can help reduce the potential for drift:

- If wind speeds top ten (10) miles per hour at the application site, do not make aerial or ground applications of THIDIAZURON-DIURON SC. If wind speeds are less than ten (10) miles per hour, observe local recommendations from your State Extension Cotton Specialist.
- Nozzle pressure of 20-30 psi is recommended.
- Do not apply this product during a temperature inversion because drift potential is high. In addition, do not apply this product if the development of a temperature inversion appears likely during the application period.
- The maximum nozzle orifice size that provides proper coverage and deposition of this product should be used.
- **CITRUS AREAS:** This product should not be applied by ground within 0.5 mile or by air within 5 miles upwind of citrus in flush.

**DIRECTIONS FOR USE**

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

Do not make applications of this product that may contact workers or other person either by drift or directly. Protected handlers only are allowed in the area during application. Consult your State or Tribe agency responsible for pesticide regulations for any specific recommendation.

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#### 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 statement 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

#### TIME OF APPLICATION

THIDIAZURON-DIURON SC defoliant applications are to be made only on mature cotton plants when the uppermost harvestable boll is mature. Boll maturity is defined as 1) when a boll is squeezed between thumb and finger, it does not dent; 2) when cutting a cross section with a sharp knife is difficult; 3) when seeds in cross section lack liquid within the seed coat or outer edges of seed coat are light brown; and 4) when fully developed cotyledons are present.

Make applications of THIDIAZURON-DIURON SC at least 5 days prior to expected harvest date.

**NOTE:** Adequate defoliation with THIDIAZURON-DIURON SC depends on three factors:

- Cotton is actively growing.
- High relative humidity.
- Cotton plant leaves are turgid and not desiccated.

**ATTENTION:** Desiccation and/or leaf freezing may occur during periods of high temperature when adjuvants are added to THIDIAZURON-DIURON SC application solution. Products and adjuvants known to cause desiccation of cotton leaf tissue should not be used.

Under low nighttime temperatures (below 60°F) or otherwise adverse conditions, this product, when used alone, may provide less than expected defoliation and / or regrowth suppression.

#### APPLICATION INFORMATION

Use an adequate volume of water with the recommended amount of THIDIAZURON-DIURON SC defoliant to uniformly and completely cover leaves. For ground equipment, apply 10 – 25 gallon per acre and by air, use 2 – 10 gallons per acre. Maintain agitation during application.

#### DOSAGE INFORMATION

Application Rate: Before harvest, use 0.4-1.0 pints active ingredient/acre (6.4-16 fl. oz./A).

One gallon of THIDIAZURON-DIURON SC will treat 8 - 20 acres. Refer to the dose rate table below.

In some situations, a follow-up application may be needed. THIDIAZURON-DIURON SC may be used for this application. Other defoliants may be needed. If additional boll opening is required, Ethephon 6 or any other boll-opening products may be used at recommended rates; see product label for rates and timings. Consult your local State Extension Cotton Specialist recommendations for rates and timings.

The maximum annual use rate of THIDIAZURON-DIURON SC is 16 oz. per acre per season.

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**MIXING INSTRUCTIONS**

1. Fill spray applicator tank with at least one half of the water to be used
2. Start agitation
3. Add the appropriate volume of THIDIAZURON -DIURON SC
4. Continue agitation and fill tank with the remainder of the water to be used
5. Agitation should continue throughout the application

**CALIFORNIA ONLY: PRECONDITIONING**

When used as a pre-conditioner seven to ten days before application of this or other defoliant compounds, this product will improve the efficacy of such a defoliant application. Before use, observe all product label directions, recommendations and prohibitions on both product's labels.

Application Rate: Use 4-6 fl.oz. of this product/acre in an aerial application of 2-10 gallons of spray solution or ground application of 10-25 gallons of spray solution

**APPLICATION RATE TABLE for THIDIAZURON-DIURON SC**

THIDIAZURON-DIURON SC Formulated Product	One Gallon of THIDIAZURON-DIURON SC Will Treat	Active Ingredients per Acre
6.4 oz./Acre (0.4 pt./Acre)	20 Acres	0.075 lbs. ai/Acre
8.8 oz./Acre (0.55 pt./Acre)	15 Acres	0.10 lbs. Ai/Acre
12.8 oz./Acre (0.8 pt./Acre)	10 Acres	0.15 lbs. Ai/Acre
16.0 oz./Acre (1.0 pt./Acre)	8 Acres	0.1875 lbs. ai/Acre

**DO NOT APPLY MORE THAN 1.0 PINT OF THIDIAZURON-DIURON SC PER ACRE PER SEASON.**

**IMPORTANT CLEANOUT INSTRUCTIONS**

When applying THIDIAZURON-DIURON SC, a residue may form in application equipment. This residue can best be flushed out of the spraying system by using a commercial tank cleaner when done while residue is still fresh and moist. **DO NOT ALLOW EQUIPMENT TO DRY BEFORE CLEANOUT.** Consult your State Extension Cotton Specialist for recommended tank cleaners and cleaning procedures.

Tank cleaner and water should be used immediately after application. The entire system including nozzles, booms, application tanks, sumps, pumps, and transfer lines should be flushed. Allowing the spray solution to dry in the application equipment can result in residues that are more difficult to remove. **Dried residues are extremely difficult to remove. To remove such dried residues, fill the affected equipment to capacity with commercial tank cleaner solution and let it remain for 7 days. Afterwards, the equipment will need to be thoroughly flushed and rinsed.**

Spray application equipment that has been inadequately cleaned will contain residue of THIDIAZURON - DIURON SC. Such improper cleaning could lead to crop damage in later applications.

Arysta LifeScience North America Corporation assumes no liability due to equipment that has not been properly cleaned.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store this product in a cool, dry place in its original container only. Container should be closed when not in use. Do not expose the product to open flame excessive heat. Store in original container and keep closed.

**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.

**To Contain a Spill:** Absorb liquid by covering it with cat litter, commercial clay, lime, sand, sawdust, or soda ash. Once absorbed, bury the cleaning materials and cleanse the spill area with a detergent and water solution.

**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.

**DO NOT REUSE EMPTY CONTAINER**

**CONDITIONS OF SALE AND WARRANTY**

The **Directions For Use** of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 ARYSTA LIFESCIENCE NORTH AMERICA COPORATION ("ALSNA") or the Seller. All such risks shall be assumed by the Buyer.

ALSNA 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.

ALSNA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT PERMITTED BY LAW, ALSNA AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALSNA and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of ALSNA.



**THIDIAZURON-DIURON SC**  
**COTTON DEFOLIANT**  
 For Agricultural Use Only

**ACTIVE INGREDIENTS:**

Thidiazuron: N-phenyl-N'-1,2,3-thidiazol-5-ylurea*	12%
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Contains 1 lb. Thidiazuron per gallon and 0.5 lb Diuron per gallon

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

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SEE ATTACHED BOOKLET FOR ADDITIONAL PRECAUTIONS AND USE DIRECTIONS

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**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

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**STORAGE AND DISPOSAL**

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 EPA Est. No. 51036-GA-001

Manufactured by  
 Arysta LifeScience North America  
 Corporation

ADxxxxxx  
 NET CONTENTS: \_\_\_\_\_

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 Cary, NC 27513

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