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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Registration Number:	Date of Issuance:
66330-344	APR 29 2011

NOTICE OF PESTICIDE:
_X_ Registration
_X_ Reregistration

(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product: Thidiazuron-Diuron SC

Name and Address of Registrant (include ZIP Code):
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

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.

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. 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.

EPA received a label amendment request submitted on April 26, 2011. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision (RED) for **Thidiazuron** have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after twelve (12) months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

If you have any questions regarding this Notice, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov.

Signature of Approving Official:	Date:
Kathryn V. Montague Product Manager 23 Herbicide Branch Registration Division (7505P)	APR 29 2011

EPA Form 8570-6

THIDIAZURON-DIURON SC

COTTON DEFOLIANT

For Agricultural Use Only

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

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	
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 or water if able to swallow. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor or going for treatment. **FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300	

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

EPA Reg. No. 66330-344
AD071306

EPA Est. No.
NET CONTENTS: _____

Manufactured For:
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

ACCEPTED
APR 29 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 66330-344

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders and applicators must wear:

- Long-sleeved shirt
- Long pants
- Shoes and socks

See Engineering Controls for Requirements

USER SAFETY REQUIREMENTS

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

Engineering controls for Aerial Application: Enclosed cockpits

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]

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. 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. 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 features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This chemical has properties and characteristics associated with chemicals detected in ground water. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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.

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 soil or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

PRODUCT 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 RESTRICTIONS

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
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.

RESTRICTIONS 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 restrictions will help reduce drift potential:

- 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.
- 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 or wind speeds are lower, exposures due to drift would be reduced.
- Do not apply by ground within 100 feet or by air within 0.5 mile of lettuce.

RESTRICTIONS TO LOWER SPRAY DRIFT POTENTIAL IN THE RIO GRANDE VALLEY OF TEXAS

The following restrictions will help reduce drift potential:

- 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.
- 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 or wind speeds are lower, exposures due to drift would be reduced.
- **CITRUS AREAS**: Do not appy THIDIAZURON-DIURON SC by ground when citrus in flush (burst of new growth, as in springtime) is within 1/2 mile downwind of the point of application Do not apply by air when citrus in flush is within 5 miles downwind of the point of application.

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 specified 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 0.075 lb ai/A (0.050 lb thidiazuron/0.025 lb Diuron)– 0.187 lb ai/A (0.125 lb thidiazuron/0.062 lb Diuron) (6.4-16 fl oz/A of formulation). Maximum application rate of 0.3 lb thidiazuron/A per year. Maximum of 2 applications, but not to exceed 0.3 lb thidiazuron/A per year.

Maximum application rate of 0.3 lb thidiazuron/A per year. Maximum of 2 applications, but not to exceed 0.3 lb thidiazuron/A per year
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.
Maximum application rate of 0.3 lb thidiazuron/A per year. Maximum of 2 applications, but not to exceed 0.3 lb thidiazuron/A per year.

TANK MIX OF Thidiazuron-Diuron SC plus other cotton defoliant products:
The tank mix of Thidiazuron-Diuron SC plus other cotton defoliant products is recommended to improve overall defoliation, and as 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 Thidiazuron-Diuron SC at a rate of 3.2 to 6.4 fl oz/A plus other cotton defoliant products at a rate of 21 to 42 fl oz/A.

For cotton produced in arid conditions, apply Thidiazuron-Diuron SC at a rate of 6.4 to 16 fl oz/A plus other cotton defoliant products at a rate of 21 to 42 fl oz/A.

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 products' labels.

Application Rate: Use 4-6 fl oz of this product/A 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/A (0.4 pt/A)	20 Acres	0.075 lb ai/A
8.8 oz/A (0.55 pt/A)	15 Acres	0.10 lb ai/A
12.8 oz/A (0.8 pt/A)	10 Acres	0.15 lb ai/A
16.0 oz/A (1.0 pt/A)	8 Acres	0.1875 lb ai/A

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, LLC 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: Nonrefillable containers equal to or less than 5 gallons: 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 1/4 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning, If burned, stay out of smoke.
Nonrefillable containers greater than 5 gallons: 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Warranty and Disclaimer Statement

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. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta 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 described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

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