



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
72167-47

Date of Issuance:
MAY - 4 2005

Term of Issuance:
Conditional

NOTICE OF PESTICIDE:

- Registration
- Reregistration
(under FIFRA, as amended)

Name of Pesticide Product:
Nations Ag II
Thidiazuron/Diuron EC
Cotton Defoliant

Name and Address of Registrant (include ZIP Code):

Nations Ag II, LLC
4680 Monticello Avenue, 187i-174
Williamsburg, VA 23188

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

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 data.
2. Make the following label changes listed below before you release the product for shipment:
 - a. Add the phrase, "EPA Reg. No. 72167-47".
 - b. Modify the Hazards to Humans section to include the following statements:

Causes skin burns. Harmful if inhaled or absorbed through skin.
3. Submit the results of the one year storage stability and corrosion characteristics study upon completion.

Signature of Approving Official:

Joanne S. Miller

Date:

MAY - 4 2005

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4. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 (7505C)

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ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAY - 4 2005

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

72167-47

Nations Ag II

Thidiazuron/Diuron EC Cotton Defoliant

For Agricultural Use Only

ACTIVE INGREDIENT:

Thidiazuron: N-phenyl-N'-1,2,3-thiadiazol-5-ylurea12.0%
Diuron: 3-(3,4-dichlorophenyl)-1,1-dimethylurea.....6.0%

INERT INGREDIENTS:82.0%
TOTAL100%

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

EPA Reg. No. 72167-

EPA Est. No.

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.)

FIRST AID

IF ON SKIN OR CLOTHING:

- * Take off contaminated clothing.
- * Rinse skin immediately with water for 15-20 minutes.
- * Call a poison control center or doctor for treatment advice.

IF IN EYES:

- * Hold eye open and rinse 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 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.

For MEDICAL emergencies involving this product call 1-800-308-5391.
Have the product container with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: 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 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 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 material that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturers' 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

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: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

DO NOT REUSE EMPTY CONTAINER

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.

GENERAL INFORMATION

Thidiazuron/Diuron EC is a defoliant to be used as a pre-harvest aid for cotton. Thidiazuron/Diuron EC Cotton Defoliant performs well under 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 effectiveness of Thidiazuron/Diuron 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 Thidiazuron/Diuron EC Cotton Defoliant:

Small grains, sorghum, corn, or root crops (except carrots, onions)	Two (2) months
Legumes (including alfalfa) or leafy vegetables (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	
With deep-plowing of soil (12-15 inches)	Two (2) months
When soil is only disced (4-6 inches)	Nine (9) months

Cover Crops: Small grains and/or legumes intercropped within the cotton crop to which Thidiazuron/Diuron 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 Thidiazuron/Diuron 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 Thidiazuron/Diuron 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 Thidiazuron/Diuron EC adjacent to lettuce, citrus, or cantaloupe.

PRACTICES TO LOWER POTENTIAL FOR DRIFT ONTO NON-TARGET CROPS

During applications, particularly under windy conditions, Thidiazuron/Diuron EC Cotton Defoliant may drift to nontarget crops. To help reduce the drift potential, use the following practices:

- Do not apply Thidiazuron/Diuron 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 Thidiazuron/Diuron EC when a temperature inversion is present or when conditions favor an inversion prior to completing application(s).

- Additionally, do not apply Thidiazuron/Diuron EC by air within one-half (1/2) mile of lettuce. Do not apply Thidiazuron/Diuron EC by ground equipment within 100 feet of lettuce.

PRACTICES TO LOWER DRIFT POTENTIAL ONTO NONTARGET CROPS IN THE RIO GRANDE VALLEY OF TEXAS

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

- Do not apply Thidiazuron/Diuron EC Cotton Defoliant 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 Thidiazuron/Diuron EC when a temperature inversion is present or when conditions favor an inversion prior to completing applications.
- Use the largest nozzle orifice possible which permits proper deposition and coverage of product.
- In addition, for citrus crops, do not apply Thidiazuron/Diuron EC by air when citrus in flush is within five (5) miles downwind of the point of application. Do not apply Thidiazuron/Diuron 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.

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

Apply Thidiazuron/Diuron EC 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 Thidiazuron/Diuron 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 Thidiazuron/Diuron EC Cotton Defoliant under extremely cool or adverse conditions can result in less than desirable defoliation and/or growth inhibition.

APPLICATION

Thidiazuron/Diuron 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 Thidiazuron/Diuron 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 Thidiazuron/Diuron EC application, it may be necessary to make a second application of Thidiazuron/Diuron 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 Thidiazuron/Diuron 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

Thidiazuron/Diuron EC may be used as a pre-conditioner to enhance the activity of a defoliant application. Apply Thidiazuron/Diuron 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 Thidiazuron/Diuron EC (see *Application Rate Table*) or the use of another defoliant. Refer to the second product label prior to use for complete recommendations.

THIDIAZURON/DIURON EC COTTON DEFOLIANT APPLICATION RATE TABLE		
To Achieve an Application Rate of:	Use This Amount of Thidiazuron/Diuron EC	At the Indicated Rate, One Gallon of Thidiazuron/Diuron 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 THIDIAZURON/DIURON 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. Contact Nations Ag II for additional information regarding tank cleaners which may be helpful in removing fresh residues.

Should small quantities of Thidiazuron/Diuron EC Cotton Defoliant remain in inadequately cleaned equipment, they may be released during subsequent applications and may cause damage to crops. Nations Ag II accepts no liability for damage to crops due to inadequately cleaned equipment.

IMPORTANT: Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Nations Ag II, LLC, (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product should be followed carefully. 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, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. All such risks are assumed by the user.

Limitation of Liability: The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. Under no circumstances shall the Company be liable for any special, indirect incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied

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or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Product Use Questions? Call 800-979-8994.

Nations Ag II
2901-12 Rivendell
Knoxville, TN 37922

Net Contents _____

Thidiazuron/DiuronEPA6-15-04