

241-381

05-13-1996

113

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,          and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 241-381	DATE OF ISSUANCE MAY 13 1996
	TERM OF ISSUANCE conditional	
	NAME OF PESTICIDE PRODUCT Cadre DG Peanut Herbicide	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;">           American Cyanamid Company            Agricultural Research Division            P.O. Box 400            Princeton, NJ 08543-0400         </div>		
<p><b>NOTE:</b> Changes in labeling formula 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 U.S. 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>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this 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 sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.</li> <li>Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use(s) on peanut nut meat is (are) conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.</li> </ol> <p>This information should be submitted to:          U.S. Environmental Protection Agency          Office of Pesticide Programs (7504C)          Document Processing Desk (RSB)          401 M Street, S.W., CM #2          Washington, D.C. 20460</p> <p><input type="checkbox"/> ATTACHMENT IS AN ORIGINAL</p>		
SIGNATURE OF APPROVING OFFICIAL		DATE

HACKS, KP  
7/10/96  
5/10/96

3. Add the phrase, "EPA Registration No. 241-381 and submit five (5) copies of your final printed labeling before you release the product for shipment.
4. Submit the following Ecological Effects data within two years of the date of this letter:
  - a.) 71-4(a): Avian reproduction study using bobwhite quail;
  - b.) 71-4(b): Avian reproduction study using mallard duck;
  - 72-4(a): Fish early life-stage test; and
  - 72-4(b): Freshwater aquatic invertebrate life-cycle study.

It is understood that the company has requested a waiver of the above mentioned data. It is suggested that the company contact the Agency before implementing the above mentioned studies.

5. Submit the following Environmental Fate and Ground Water data within two years of the date of this letter:
  - a.) Prospective Ground Water Study

It is suggested that you contact the Agency before implementing this study.

6. Submit the following Residue Chemistry data within two years of the date of this letter :
  - a.) Rotational Crop (plantback) data (phytotoxicity)

It is suggested that you contact the Agency before implementing this study.

7. For further comments, please refer to the enclosed Product Chemistry and Precautionary Labeling reviews.

A stamped label is enclosed for your records.

3/13

**CADRE® DG Peanut Herbicide  
WATER SOLUBLE PACKETS**

**FOR USE ONLY IN PEANUTS IN THE STATES OF ALABAMA, FLORIDA, GEORGIA, NEW MEXICO,  
NORTH CAROLINA, OKLAHOMA, SOUTH CAROLINA, TEXAS, AND VIRGINIA**

**ACTIVE INGREDIENT:**

(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid) ..... 70.0%

**INERT INGREDIENTS**..... 30.0%

**TOTAL**..... 100.0%

(1 water soluble packet contains 0.125 pounds of active ingredient as the free acid)

EPA Reg. No. 241-

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

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 IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

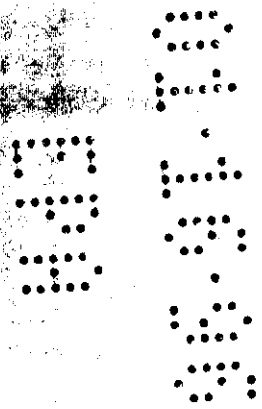
See Next Page for Additional Precautionary Statements

In case of an emergency endangering life or property involving this product, call collect, day or night, area code 201-835-3100

Net Contents:

®Registered Trademark of American Cyanamid Company

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
MAY 13 1996**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
241-381



4/13

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS**

**CAUTION!**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations:**

Users Should:

- Wash hands before eating, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

For terrestrial use only. 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 washwaters.

**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.

This labeling must be in the possession of the user at the time of pesticide application.

Observe all cautions and limitations on this label and on the labels of products used in combination with CADRE DG. Do not use CADRE DG other than in accordance with the instructions set forth on this label. The use of CADRE DG not consistent with this label may result in injury to crops. Keep containers closed to avoid spills and contamination.

DO NOT apply this product through any type of irrigation system.

DO NOT graze or feed treated peanut hay to livestock.

**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 12 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
- waterproof gloves
- shoes plus socks

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**STORAGE AND DISPOSAL**

**PROHIBITIONS:**

**KEEP FROM FREEZING**

DO NOT store below 20°F.

DO NOT contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** DO NOT reuse outer packaging. Dispose of outer packaging in a sanitary landfill, by incineration or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

**DISCLAIMER**

The label instructions for the use of this product reflect the opinion of experts based on research and field use. 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, herbicide resistant weed populations, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

6/13

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. **CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF CADRE DG.** In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of **FITNESS** or of **MERCHANTABILITY**. User assumes the risk of any use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company.

**USES WITH OTHER PRODUCTS (TANK-MIXES)**

If this product is used in combination with any other product except as specifically recommended in writing by American Cyanamid Company then American Cyanamid Company shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by American Cyanamid Company, the liability of American Cyanamid Company shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the American Cyanamid Company product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the American Cyanamid Company product.

**GENERAL INFORMATION**

CADRE DG can be applied early postemergence in peanuts. Refer to the specific treatment under the "APPLICATION INSTRUCTIONS" section of the label.

The weed killing activity involves uptake of CADRE DG by weed roots and/or foliage and rapid translocation to the growing points. After CADRE DG application, susceptible weeds may show yellowing and weed growth will stop. Several days may be required before the complete death of susceptible weeds. Adequate soil moisture is important for optimum CADRE DG activity. When adequate soil moisture is present, CADRE DG will have residual activity on susceptible germinating weeds; activity on established weeds will depend on the weed species and the depth of its root system in the soil. A timely cultivation made at least 14 days after CADRE DG application may improve general herbicide performance, particularly when adequate soil moisture is not present.

A CADRE DG application may result in some peanut yellowing and/or a reduction in vine growth. These effects are temporary and will not impact peanut yields.

4/13

Naturally occurring biotypes\* of some of the weeds listed on this label may not be effectively controlled by this and/or other products with either the ALS/AHAS enzyme inhibiting mode of action. Other herbicides with the ALS/AHAS enzyme inhibiting mode of action include the sulfonylureas (e.g., Accent<sup>1</sup>, Basic<sup>1</sup>, Classic<sup>1</sup>, Concert<sup>1</sup>, Exceed<sup>2</sup>, Permit<sup>3</sup>, Pinnacle<sup>1</sup>, etc.), the sulfonamides (e.g., Broadstrike<sup>4</sup>, etc.) and the pyrimidyl benzoates (e.g. Staple<sup>1</sup>, etc.) If naturally occurring ALS/AHAS resistant biotypes are present in a field, Cadre DG and/or any other ALS/AHAS enzyme inhibiting mode of action herbicide should be tank-mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

\*A weed biotype is a naturally occurring plant within a given species that has a slightly different, but distinct, genetic makeup from other plants.

Use of CADRE DG is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

Replanting: If replanting is necessary in a field previously treated with CADRE DG, the field may be replanted to peanuts. Rework the soil no deeper than 2 inches. DO NOT apply a second treatment of CADRE DG.

### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Add the required number of CADRE DG soluble packets to the spray tank while agitating. Fill the remainder of the tank with water.

Add a nonionic surfactant or crop oil concentrate to the spray tank. Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

When tank-mixing CADRE DG with recommended herbicides, add CADRE DG to the spray tank first and make sure it is thoroughly mixed before adding the other herbicide.

To avoid injury to sensitive crops, spray equipment used for CADRE DG applications must be drained and thoroughly cleaned with water before applying other products or spraying other crops.

### SPRAYING INSTRUCTIONS

DO NOT apply when wind velocity is greater than 10 mph, or when spray may be carried to sensitive crops. Sensitive crops include but are not limited to leafy vegetables and cotton. DO NOT apply if rainfall is threatening. Rainfall within 3 hours after CADRE DG application may reduce weed control.

#### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

Adjust the boom height to ensure proper coverage of weed foliage (according to the manufacturer's recommendation). Use only standard flat-fan nozzle tips.

DO NOT apply by helicopter, airplane, or any other aerial equipment.

Avoid overlaps when spraying.

8/13

**APPLICATION INSTRUCTIONS**

CADRE DG is active on many grass weeds, but a soil-active grass herbicide such as PROWL<sup>®</sup>, Balan<sup>4</sup>, or Sonalan<sup>4</sup> should be applied according to label directions before CADRE DG use.

Apply CADRE DG plus an approved spray adjuvant (refer to the SPRAY ADJUVANTS section of this label) early postemergence to control broadleaf and grass weeds in peanuts. Refer to the WEEDS CONTROLLED chart below for weed species controlled.

**WEEDS CONTROLLED**

An early postemergence application of CADRE DG will control or suppress the weeds listed below at a use rate of 1.44 ounces per acre\*.

<b><u>BROADLEAF WEEDS CONTROLLED</u></b>	<b><u>MAXIMUM HEIGHT AT APPLICATION</u></b> (inches)
Anoda, Spurred	2
Cocklebur, Common	6
Crownbeard, Golden	2
Indigo, Hairy	2
Morningglory	
Cypressvine	3
Entireleaf	3
Ivyleaf	3
Pitted	3
Smallflower	3
Tall	3
Pigweed spp.	4
Poinsettia, Wild	2
Pusley, Florida	2
Radish, Wild	4
Redweed	4
Senna, Coffee	3
Sicklepod	3
Sida, Prickly	2
Starbur, Bristly	2
Velvetleaf	2
 <b><u>BROADLEAF WEEDS SUPPRESSED</u></b>	
Beggarweed, Florida	2
Lambsquarter, Common	2
Ragweed, Common	2



GRASS WEEDS CONTROLLED\*\*

Crabgrass	
Large	4
Smooth	4
Crowfootgrass	2
Johnsongrass	
Rhizome***	8-10
Seedling	4
Panicum	
Fall	4
Texas	2
Sandbur spp.	4
Signalgrass, Broadleaf	4

GRASS WEEDS SUPPRESSED

Goosegrass	2
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SEDGES CONTROLLED

Nutsedge	
Purple	4
Yellow	4

- \* One water soluble packet of CADRE DG will treat 2 acres of peanuts at the 1.44 ounce per acre rate.
- \*\* CADRE DG will control many grass weeds which escape from the application of a soil-applied grass herbicide. However, CADRE DG should be used as a component of a grass weed control program and following the application of a soil-applied grass herbicide. Grass weeds must be present at the time of application to obtain control.
- \*\*\* For control of rhizome johnsongrass, weeds must be at least 8 to 10 inches tall at application. Smaller weeds do not generally have enough leaf surface area to take up enough CADRE DG for complete control.

**SPRAY ADJUVANTS**

Always include a nonionic surfactant or crop oil concentrate with CADRE DG applications. Use a nonionic surfactant with at least 80% active ingredient at one quart of surfactant for each 100 gallons of spray solution. If using crop oil concentrate, add one quart per acre.

**CULTIVATION**

The control of difficult weeds (such as Florida beggarweed) and weeds treated under dry conditions is often greatly enhanced by a timely cultivation. Cultivation should be done at least 14 days after CADRE DG application. DO NOT cultivate prior to 14 days after CADRE DG application since this timing is too early to take full advantage of the weed control activity offered by CADRE DG. In addition, cultivations should be shallow to avoid excessive movement of treated soil and to avoid exposing weed seed buried deep within the soil.

### HERBICIDE COMBINATIONS

CADRE DG may be tank-mixed with other herbicides if the practice is not prohibited by the label of the tank-mix partner. When CADRE DG is tank-mixed with another herbicide, read each label carefully to determine use rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label. No labeled use rate should be exceeded. DO NOT mix CADRE DG with any product whose label prohibits tank-mixes.

Using Starfire<sup>5</sup> or Classic in tank-mixtures with CADRE DG may result in increased peanut injury.

Using Basagran<sup>6</sup> in tank-mixtures with CADRE DG may result in reduced broadleaf weed control.

Using a postemergence grass control herbicide or fungicide in tank-mixtures with CADRE DG may result in reduced weed control.

### ROTATIONAL CROPS

The following rotational crops may be planted after applying CADRE DG in peanuts:

- 1. Any interval after CADRE DG application:

Peanuts

- 2. Four months after CADRE DG application:

Bahiagrass

Rye

Wheat

- 3. Nine months after CADRE DG application:

Field Corn

Snapbeans

Southern Peas

Soybeans

Tobacco

- 4. Eighteen months after a CADRE DG application:

Barley

Cotton\*

Grain Sorghum

Oats

Sweet Corn

- 5. Twenty-six months after a CADRE DG application:

All crops not otherwise listed.

6. Forty months after CADRE DG application:

- Canola
- Potatoes
- Red Table Beets
- Sugar Beets

Use of CADRE DG herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

Applying products containing imazethapyr (i.e. PURSUIT®, PURSUIT® PLUS) or chlorimuron (i.e. Classic) the same year as a CADRE DG application may increase the likelihood of rotational crop injury. DO NOT apply products containing imazethapyr or chlorimuron the same year as CADRE DG if rotational crop injury cannot be tolerated.

There must be an interval of at least 90 days between an application of CADRE DG and peanut harvest.

**\*For New Mexico, Oklahoma, and Texas only:** Cotton may be planted 18 months after CADRE DG application in the states of New Mexico, Oklahoma, and Texas unless drought conditions develop the year of CADRE DG application (DO NOT rotate to cotton at 18 months after CADRE DG application if less than 15 inches of rainfall or irrigation is received from the time of CADRE DG application through November 1 of the same year). If drought conditions develop the year of CADRE DG application, cotton may be planted 26 months after CADRE DG application.

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<sup>1</sup>Trademarks of E. I. duPont de Nemours & Co., Inc.

<sup>2</sup>Trademarks of Ciba Corporation

<sup>3</sup>Trademark of Monsanto Company

<sup>4</sup>Trademarks of DowElanco

<sup>5</sup>Trademark of Zeneca, Inc.

<sup>6</sup>Trademark of BASF Corporation

WEED SCIENTIFIC NAMES

**BROADLEAF WEEDS**

Anoda, Spurred	( <i>Anoda cristata</i> )
Beggarweed, Florida	( <i>Desmodium tortuosum</i> )
Cocklebur, Common	( <i>Xanthium strumarium</i> )
Crownbeard, Golden	( <i>Verbesina encelioides</i> )
Indigo, Hairy	( <i>Indigofera hirsuta</i> )
Lambsquarters, Common	( <i>Chenopodium album</i> )
Morningglory	
Cypressvine	( <i>Ipomoea quamoclit</i> )
Entireleaf	( <i>Ipomoea hederacea</i> var. <i>integriuscula</i> )
Ivyleaf	( <i>Ipomoea hederacea</i> )
Pitted	( <i>Ipomoea lacunosa</i> )
Smallflower	( <i>Jacquemontia tamnifolia</i> )
Tall	( <i>Ipomoea purpurea</i> )
Pigweed spp.	( <i>Amaranthus</i> spp.)
Poinsettia, Wild	( <i>Euphorbia heterophylla</i> )
Pusley, Florida	( <i>Richardia scabra</i> )
Radish, Wild	( <i>Raphanus raphanistrum</i> )
Ragweed, Common	( <i>Ambrosia artemisiifolia</i> )
Redweed	( <i>Melochia corchorifolia</i> )
Senna, Coffee	( <i>Cassia occidentalis</i> )
Sicklepod	( <i>Cassia obtusifolia</i> )
Sida, Prickly	( <i>Sida spinosa</i> )
Starbur, Bristly	( <i>Acanthospermum hispidum</i> )
Velvetleaf	( <i>Abutilon theophrasti</i> )

**GRASS WEEDS**

Crabgrass	
Large	( <i>Digitaria sanguinalis</i> )
Smooth	( <i>Digitaria ischaemum</i> )
Crowfootgrass	( <i>Dactyloctenium aegyptium</i> )
Goosegrass	( <i>Eleusine indica</i> )
Johnsongrass	( <i>Sorghum halepense</i> )
Panicum	
Fall	( <i>Panicum dichotomiflorum</i> )
Texas	( <i>Panicum texanum</i> )
Sandbur spp.	( <i>Cenchrus</i> spp.)
Signalgrass, Broadleaf	( <i>Brachiaria platyphylla</i> )

**SEDGES**

Nutsedge	
Purple	( <i>Cyperus rotundus</i> )
Yellow	( <i>Cyperus esculentus</i> )

12/13

American Cyanamid Company  
Agricultural Products Division  
Crop Protection Chemicals Department  
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