241-364 6/29/2011 1 of 12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mr. Jeffrey H. Birk
BASF
26 Davis Dr.
Research Triangle Park, NC 27709-3528

JUN 29 2011

Subject: Notification of Minor Label Revisions per PR Notice 98-10
Cadre® herbicide
EPA Reg. No. 241-364
Your Application Dated June 14, 2011

Dear Mr. Birk:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at (703) 306-0415 or Kelsey Semrod of my staff at (703) 347-0284.

Sincerely,

Kable Bo Davis, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: 241-364

2. EPA Product Manager: Kable Davis

3. Proposed Classification: [ ] None [ ] Restricted

4. Company/Product (Name): Cadre herbicide

PM#: 25

5. Name and Address of Applicant *(Include ZIP Code)*

BASF
26 Davis Drive
Research Triangle Park, NC 27709

[ ] *Check if this is a new address*

6. **Expedited Reveiw.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in repsonse to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

NOTIFICATION
JUN 29 2011

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of minor label changes for Cadre herbicide (241-364). This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.
This notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at jeffrey.birk@basf.com

Section - III

1. **Material This Product Will Be Packaged In:**

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify)
Certification must be submitted	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information: [ ] Label [ ] Container

4. Size(s) Retail Container

5. Location of Label Directions: [ ]

6. Manner in Which Label is Affixed to Product: [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section - IV

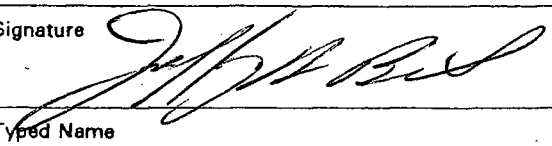
1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Jeffrey H. Birk	Regulatory Manager	919-547-2622

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received **(Stamped)**

2. Signature 

3. Title: Regulatory Manager

4. Typed Name: Jeffrey H. Birk

5. Date: June 14, 2011

BASF

The Chemical Company

June 14, 2011

Document Processing Desk (NOTIF)
U.S. Environmental Protection Agency
Office of Pesticide Programs (7505P)
Room S-4900
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202
Attention: Mr. Kable Davis, (PM 25)

RE: Cadre® herbicide (241-364)
Notification of minor label changes

Dear Mr. Davis:

BASF is submitting a notification of minor label changes for Cadre herbicide. BASF has removed a patent number reference, replace Inert with Other in the ingredients statement, change General Information to Product Information, changed Container Disposal to Container Handling and updated the Conditions of Sale and Warranty statement. No other substantive changes have been made to the label.

This submission includes the following:

- EPA Application form 8570-1
- Electronic copy of the Cadre herbicide labeling
- Certification with Respect to Label Integrity
- Cadre herbicide label

Thank you for your attention to this matter. If you should have any questions, please feel free to call me at (919) 547-2622.

Regards,

Jeffrey H. Birk, Ph.D.
Regulatory Manager
Phone 919-547-2622
Fax: 919-547-2850
Email: jeffrey.birk@basf.com

BASF
The Chemical Company

NOTIFICATION
JUN 29 2011

CADRE® HERBICIDE

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

Active Ingredient:	
Ammonium salt of imazapic [(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid]*	23.6%
Other Ingredients:	76.4%
Total:	100.0%

*Equivalent to 22.2% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid
(1 gallon contains 2.0 pounds of active ingredient as the free acid)

EPA Reg. No. 241-364 **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.)

See inside booklet for complete **First Aid**, **Precautionary Statements**, **Directions For Use**, and **Conditions of Sale and Warranty.**

In case of an emergency endangering life or property involving this product, call day or night, 1-800-832-HELP (4357).

Net Contents:

BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709

FIRST AID	
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 on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing. • Call a poison control center for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- 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. • 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 cleaning equipment or disposing of equipment washwaters or rinsate.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The 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 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® herbicide**. **DO NOT** use **Cadre** other than in accordance with the instructions set forth on this label; this may help prevent crop response. 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.

DO NOT apply more than 0.063 lb ai/A imazapic (4.0 fluid ozs/A of **Cadre**) per application or per use season.

Preharvest Interval: There must be an interval of at least **90 days** between an application of **Cadre** and peanut harvest.

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

STORAGE AND DISPOSAL

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

Pesticide Storage

KEEP FROM FREEZING. DO NOT store below 20° F.

Pesticide Disposal

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

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

Triple rinse containers too large to shake (capacity > 5 gallons) 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

PRODUCT INFORMATION

Cadre® herbicide 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** by weed roots and/or foliage and rapid translocation to the growing points. After **Cadre** 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** activity. When adequate soil moisture is present, **Cadre** 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. If adequate rainfall is not received within 5 days, then irrigation at 0.75 inch/acre will serve to activate the **Cadre** soil residual activity. Also when adequate soil moisture is not present and irrigation is not an option then a timely cultivation made at least 14 days after **Cadre** application may improve general herbicide performance.

A **Cadre** application may result in some peanut yellowing and/or a reduction in vine growth.

Under adverse conditions (including but not limited to high pH $\geq$ 7.5, low nutrient availability, saline conditions, and/or hardpans), **Cadre** application may induce an adverse crop response.

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®**, **Basis®**, **Classic®**, **Concert®**, **Exceed®**, **Permit®**, **Pinnacle® herbicides**, etc.), the sulfonamides (e.g. **Broadstrike™ herbicide**, etc.) and the pyrimidyl benzoates (e.g. **Staple® herbicide**, etc.). If naturally occurring ALS/AHAS resistant biotypes are present in a field, **Cadre** 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** 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**, the field may be replanted to peanuts. Rework the soil no deeper than 2 inches. **DO NOT** apply an additional treatment of **Cadre** or **Pursuit® herbicide**.

MANAGING OFF-TARGET MOVEMENT

The following recommendations are general in nature. Refer to the **SPRAYING INSTRUCTIONS** section of this label for the specific application directions for **Cadre**.

Spray Drift: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-related and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential is to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see **Wind; Temperature and Humidity**; and **Temperature Inversions**).

Controlling droplet size:

- **Volume -** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure - DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles -** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation -** Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type -** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light-to-no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery, dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Ground Application (Broadcast): Use 5 or more gallons of water per acre (the maximum recommended spray volume for **Cadre® herbicide** is 10 gallons per acre). The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

MIXING INSTRUCTIONS

Fill the spray tank 1/2 to 3/4 full with clean water. Use a calibrated measuring device to measure the required amount and add the required amount of **Cadre** to the spray tank while agitating. Fill the remainder of the tank with water.

Add a nonionic surfactant, organosilicate adjuvant 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** with recommended herbicides, add wettable powders, dispersible granules or other dry formulations first, then ECs, then **Cadre**, and then an adjuvant.

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

SPRAYING INSTRUCTIONS

DO NOT apply if wind conditions, temperature inversion conditions, or other conditions may cause drift onto adjacent areas or 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** application may reduce weed control.

Ground Application

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.

To ensure proper spray coverage, the sprayer must be calibrated to deliver the recommended spray volume and pressure and the spray boom height adjusted to ensure proper coverage of weed foliage (according to the manufacturer's recommendation). Spray nozzle tips should be

selected to provide an even and thorough distribution of the spray mixture. The use of boomless or flood type nozzles is not recommended and may result in decreased weed control.

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

Avoid overlaps when spraying.

APPLICATION INSTRUCTIONS

Cadre® herbicide is active on many grass weeds, but a soil-active grass herbicide such as **Prowl® herbicide** or **Sonalan™ herbicide** should be applied according to label directions before **Cadre** use.

Apply **Cadre** at a rate of 4.0 ounces per acre (0.063 lb ai/A) 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**, at a use rate of 4.0 ounces per acre*, will control or suppress the weeds listed below.

BROADLEAF WEEDS CONTROLLED	MAXIMUM HEIGHT AT APPLICATION (inches)
Anoda, spurred	2
Burgherkin	2
Carpetweed	2
Citronmelon	2
Cocklebur, common	6
Crownbeard, golden	2
Indigo, hairy	2
Morningglory, cypressvine Morningglory, entireleaf Morningglory, ivyleaf Morningglory, pitted Morningglory, smallflower Morningglory, tall	3 3 3 3 3 3
Pigweed, Amaranth, Pigweed, Palmer Pigweed, redroot Pigweed, smooth Pigweed, spiny	2 2 4 4 4
Poinsettia, wild	2
Pusley, Florida	2
Radish, wild	4
Redweed	4

(continued)

WEEDS CONTROLLED *(continued)*

BROADLEAF WEEDS CONTROLLED	MAXIMUM HEIGHT AT APPLICATION (inches)
Senna, coffee	3
Sicklepod	3
Sida, prickly	2
Spurge spp.	2
Starbur, bristly	2
Velvetleaf	2

BROADLEAF WEEDS SUPPRESSED	MAXIMUM HEIGHT AT APPLICATION (inches)
Beggarweed, Florida	2
Lamsbsquarters, common	2
Ragweed, common	2

GRASS WEEDS CONTROLLED*	MAXIMUM HEIGHT AT APPLICATION (inches)
Crabgrass, large Crabgrass, smooth	4 4
Crowfootgrass	2
Johnsongrass, rhizome** Johnsongrass, seedling	8 to 10 4
Panicum, fall Panicum, Texas	4 2
Sandbur spp.	4
Signalgrass, broadleaf	4

GRASS WEEDS SUPPRESSED	MAXIMUM HEIGHT AT APPLICATION (inches)
Goosegrass	2

SEDGES CONTROLLED	MAXIMUM HEIGHT AT APPLICATION (inches)
Nutsedge, purple Nutsedge, yellow	4 4

*__Cadre__ will control many grass weeds which escape from the application of a soil-applied grass herbicide. However, **Cadre** 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 for complete control.

SPRAY ADJUVANTS

West Texas, New Mexico and Oklahoma

DO NOT use a nonionic surfactant as an adjuvant. Include either a crop oil concentrate, or methylated seed oil concentrate or blends of these containing an organosilicate-based surfactant at 1 quart per acre. Maintain agitation while spraying to ensure a uniform spray mixture.

Areas outside of West Texas, New Mexico and Oklahoma

Always include a nonionic surfactant or crop oil concentrate with **Cadre® herbicide** 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. Under adverse application conditions (dry weather, larger weeds), the use of a crop oil concentrate at one quart per acre, and fertilizer (spray grade ammonium sulfate at 2.5 lbs per acre or liquid fertilizer at 1 to 2 quarts per acre) is recommended.

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** application.

DO NOT cultivate prior to 14 days after **Cadre** application since this timing is too early to take full advantage of the weed control activity offered by **Cadre**. 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 may be tank mixed with other herbicides if the practice is not prohibited by the label of the tank mix partner. When **Cadre** 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 may be exceeded. **DO NOT** mix **Cadre** with any product whose label prohibits tank mixes.

Using **Gramoxone™ Max** or **Classic® herbicides** in tank mixtures with **Cadre** may result in increased peanut injury.

Using **Basagran® herbicide** in tank mixtures with **Cadre** may result in reduced broadleaf weed control.

Using a postemergence grass control herbicide or fungicide in tank mixtures with **Cadre** may result in reduced weed control.

It is not recommended to use **Cadre** in combination with or following a **Pursuit® herbicide** or **Strongarm™ herbicide** application due to the potential for herbicide resistance development and uncertainty regarding crop response.

ROTATIONAL CROPS

The following rotational crops may be planted after applying **Cadre** in peanuts:

1. Any interval after **Cadre** application:
   Peanuts
2. Four months after **Cadre** application:
   Bahiagrass
   Rye
   Wheat
3. Nine months after **Cadre** application:
   Field corn
   Snap beans
   Southern peas
   Soybeans
   Tobacco
4. Eighteen months after **Cadre** application:
   Barley
   Cotton*
   Grain sorghum
   Oats
   Onions**
   Sweet corn
5. Twenty-six months after **Cadre** application:
   All crops not otherwise listed
6. Forty months after **Cadre** application:
   Canola
   Potatoes
   Red table beets
   Sugarbeets

Use of **Cadre** 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.

Application of products containing chlorimuron ethyl (e.g. **Classic**) or imazethapyr (e.g. **Pursuit**) the same year as labeled rates of **Cadre** may increase the risk of injury to sensitive rotational crops. Consult labels for recommended uses of these products in combinations. Always follow the more restrictive label limitations and precautions.

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

**For Florida and Georgia only

WEED LIST

Common Name	Scientific Name
BROADLEAF WEEDS	
Anoda, spurred	*Anoda cristata*
Beggarweed, Florida	*Desmodium tortuosum*
Burgherkin	*Cucumis anguria*
Carpetweed	*Mollugo verticillata*
Citronmelon	*Citrullus lanatus* var.*citroides*
Cocklebur, common	*Xanthium strumarium*
Crownbeard, golden	*Verbesina encelioides*
Indigo, hairy	*Indigofera hirsuta*
Lambsquarters, common	*Chenopodium album*
Morningglory, cypressvine	*Ipomoea quamoclit*
Morningglory, entireleaf	*Ipomoea hederacea* var. *integriuscula*
Morningglory, ivyleaf	*Ipomoea hederacea*
Morningglory, pitted	*Ipomoea lacunosa*
Morningglory, smallflower	*Jacquemontia tamnifolia*
Morningglory, tall	*Ipomoea purpurea*
Pigweed, Amaranth	*Amaranthus palmeri*
Pigweed, Palmer	*Amaranthus palmeri*
Pigweed, redroot	*Amaranthus retroflexus*
Pigweed, smooth	*Amaranthus hybridus*
Pigweed, spiny	*Amaranthus spinosus*
Poinsettia, wild	*Euphorbia heterophylla*
Pusley, Florida	*Richardia scabra*
Radish, wild	*Raphanus raphanistrum*
Ragweed, common	*Ambrosia artemisiifolia*
Redweed	*Melochia corchorifolia*
Senna, coffee	*Cassia occidentalis*
Sicklepod	*Cassia obtusifolia*
Sida, prickly	*Sida spinosa*
Spurge spp.	*Euphorbia* spp.
Starbur, bristly	*Acanthospermum hispidum*
Velvetleaf	*Abutilon theophrasti*
GRASS WEEDS	
Crabgrass, large	*Digitaria sanguinalis*
Crabgrass, smooth	*Digitaria ischaemum*
Crowfootgrass	*Dactyloctenium aegyptmum*
Goosegrass	*Eleusine indica*
Johnsongrass	*Sorghum halepense*
Panicum, fall	*Panicum dichotomiflorum*
Panicum, Texas	*Panicum texanum*
Sandbur spp.	*Cenchrus* spp.
Signalgrass, broadleaf	*Brachiaria platyphylla*

WEED LIST *(continued)*

Common Name	Scientific Name
SEDGES	
Nutsedge, purple	*Cyperus rotundus*
Nutsedge, yellow	*Cyperus esculentus*

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