

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

241-350

DATE OF ISSUANCE

APR 22 1993

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

PURSUIT® DG HERBICIDE

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

American Cyanamid Co.  
P.O. Box 400  
Princeton, NJ 08543

NOTE: 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.

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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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.

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

1. Submit/cite all data required for registration/reregistration of your product under FIFRA Section 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 241-350".
- b. Change the signal word from "CAUTION" TO "WARNING".
- c. Change the Precautionary Statements to read:  
"Causes substantial but temporary eye injury.  
Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE APR 22 1993

d. Under Statements of Practical Treatment:

- Change "If on skin: to read "Wash with plenty of soap and water. Get medical attention."
- Change "If in eyes" to read "Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes."
- Add "If swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid alcohol".

3. Submit five (5) copies 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, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

I have enclosed a copy of our review for your information.

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

Sincerely yours,

Robert J. Taylor  
Product Manager (25)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

RD:RTaylor:eja:4/22/93:3056800

PH 25

241-350

30/07

Proposed PURSUIT® DG Label

EPA Reg. No. 241-

The following changes are from the proposed PURSUIT herbicide label submitted to the EPA for approval (approval pending) to the proposed PURSUIT DG label dated 6/92. The changes are highlighted on the labels and listed below. Also included is the approved PURSUIT herbicide (liquid formulation) label dated 7/91 (approved by the EPA on 1/7/92).

Proposed PURSUIT DG Label (page no.)	Pending PURSUIT Label (page no.)	Nature of change
1	1	The active ingredient content is 70.0% The inert ingredients are listed as 30%.  Net contents are 0.45 pounds per soluble bag X 2 bags per package.  Date of the PURSUIT DG label is 7/92.
2	2	The word "inhaled" has been removed from the first paragraph under CAUTION. The caution regarding breathing spray mist was deleted (not appropriate), the caution regarding eye irritation were included base on acute toxicity.  The statements regarding freezing under STORAGE AND DISPOSAL were deleted (non-freezing).  CONTAINER DISPOSAL statement was changed to reflect packaging of soluble bags.
4	4	Under MIXING INSTRUCTIONS, the directions are changed to reflect to addition of soluble bags (rather than measuring liquid product).

ACCEPTED with COMMENTS in EPA Letter Dated:

APR 22 1993

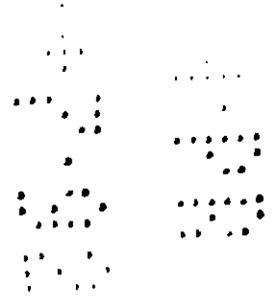
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticides registered under EPA Reg. No. 241-350

\* Registered trademark of American Cyanamid Company

10            10            Under soybean USE RATE, the application rate is changed to reflect the granular product quantity (instead of liquid on the approved PURSUIT label). The application rate on an active ingredient basis remains the same.

15            15            The peanut USE RATE has been changed to reflect the granular formulation use rate. As in soybeans, the peanut application use rate remains the same as the approved PURSUIT label on an active ingredient basis.

18            18            The application use rates under SEQUENTIAL APPLICATIONS has been changed to reflect the granular use rate.



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Soluble Bag Label

**PURSUIT® DG herbicide**

Contains imazethapyr ( $\pm$ )-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

EPA Reg. No. 241-

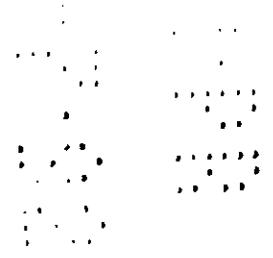
EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

) See additional precautionary statements and directions for use on outer container.

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Outer Container

PURSUIT® DG  
herbicide

FOR USE IN SOYBEANS AND PEANUTS

ACTIVE INGREDIENT:

Imazethapyr (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid .....	70.0%
INERT INGREDIENTS.....	30.0%
TOTAL.....	<u>100.0%</u>

PURSUIT DG in a water soluble bag.

(1 bag contains 0.45 pounds of active ingredient as the free acid)

EPA Reg. No. 241-

EPA Est. No. 32761-MO-3

KEEP OUT OF REACH OF CHILDREN

CAUTION!

PRECAUCION!

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

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

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

Do not remove package from container except for immediate use.

See Next Page for Additional Precautionary Statements

American Cyanamid Company  
Agricultural Division  
Crop Protection Chemicals Department  
Wayne, NJ 07470 ©1992

Net Contents: 2 X 0.45 pounds  
(2 X 204 grams)

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or 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.

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 PURSUIT DG. Do not use PURSUIT DG other than in accordance with the instructions set forth on this label. The use of PURSUIT DG not consistent with this label may result in injury to crops.

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

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STORAGE AND DISPOSAL

) PROHIBITIONS:

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, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

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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, 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.

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 PURSUIT 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.**

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 account of the purchase price of the American Cyanamid Company product.

GENERAL INFORMATION

Entry into treated fields is not permitted without protective clothing until sprays have dried.

PURSUIT DG can be applied as an early preplant, preplant incorporated, preemergence, at ground-cracking (peanuts) or early postemergence. The application method of choice will depend on the anticipated weed spectrum, and the preference of the applicator.

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PURSUIT DG kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum PURSUIT DG activity. When adequate soil moisture is present, PURSUIT DG will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

Use of PURSUIT 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.

Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following PURSUIT DG applications. These effects occur infrequently and are temporary. Normal growth and appearance should resume within 1 to 2 weeks. These effects will not affect crop yields.

Replanting: If replanting is necessary in a field previously treated with PURSUIT DG, the field may be replanted to soybeans, peanuts or imidazolinone resistant corn. Rework the soil no deeper than the treated zone. Do not apply a second treatment of PURSUIT DG.

#### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Add the appropriate number of PURSUIT DG soluble bags to the spray tank while agitating. Fill the remainder of the tank with water.

POSTEMERGENCE APPLICATIONS OF PURSUIT DG REQUIRE THE ADDITION OF AN ADJUVANT AND A LIQUID FERTILIZER SOLUTION.

#### I. ADJUVANTS

**SURFACTANTS:** Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 qt./100 gal.

OR

**CROP OIL CONCENTRATE:** Instead of a surfactant, a petroleum or vegetable seed based oil concentrate (such as SUN-IT II™) may be used. SUN-IT II is recommended when weeds are under moisture or temperature stress. Use SUN-IT II or other crop oil concentrates at the rate of 1.5 to 2 pts./acre (use the higher rate when weeds are at the maximum label size).

AND

#### II. LIQUID FERTILIZER SOLUTION

Recommended nitrogen based fertilizers include liquid fertilizers (such as 28%N, 32%N or 10-34-0) at the rate of 1-2 qts./acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, spray grade ammonium sulfate may be used at the rate of 2.5 lbs./acre.

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™SUN-IT II is a trademark of Agsco, Inc.

Note: Liquid fertilizer solutions are not required in PURSUIT DG applications in use areas south of Interstate highway 40.

When tank-mixing PURSUIT DG with recommended herbicides, add the other herbicide to the spray tank first and make sure it is thoroughly mixed before adding PURSUIT DG. When tank-mixing Bronco<sup>1</sup>, Roundup<sup>1</sup>, Gramoxone Extra<sup>2</sup>, or Starfire<sup>2</sup> with PURSUIT DG herbicide and PROWL<sup>®</sup> herbicide, trifluralin, Lasso<sup>1</sup> or Dual<sup>3</sup> add the products in the following order: (1) PROWL, trifluralin, Lasso or Dual, (2) Roundup, Gramoxone Extra or Starfire, (3) PURSUIT DG, (4) non-ionic surfactant or crop oil concentrate, and (5) liquid fertilizer.

If dicamba sprayer contamination is possible, refer to the appropriate dicamba label (Banvel, Marksman) for sprayer cleanup directions. Clean the sprayer prior to PURSUIT DG applications to avoid dicamba injury to soybeans.

To avoid injury to sensitive crops, spray equipment used for PURSUIT DG applications must be drained and thoroughly cleaned with water before being used to apply other products.

When PURSUIT DG is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded. PURSUIT DG cannot be mixed with any product containing a label prohibiting such mixtures.

### 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 leafy vegetables and sugarbeets.

#### 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.

To ensure thorough coverage, use a minimum of 20 gallons of water per acre when applying PURSUIT DG to minimum or no-till soybeans. Use higher gallonage for fields with dense vegetation or heavy crop residues.

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

Avoid overlaps when spraying.

<sup>1</sup>Bronco, Lasso and Roundup are trademarks of Monsanto Agricultural Products Company.

<sup>2</sup>Gramoxone Extra and Starfire are trademarks of ICI Americas, Inc.

<sup>3</sup>Dual is a trademark of Ciba Geigy Corporation.

<sup>®</sup>Registered Trademark of American Cyanamid Company.

PURSUIT DG APPLICATIONS WITH A MELROE SPRA-COUCPE

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PURSUIT DG may be applied to soybeans with a Spra-Coupe sprayer. When applying PURSUIT DG with a Spra-Coupe, spray the weeds before they reach the maximum size listed in this label. Adequate control of weeds is dependent upon good spray coverage of the weeds. The sprayer must be calibrated to deliver the recommended spray volume and pressure to ensure adequate spray coverage of the weeds.

When applying PURSUIT DG with a Spra-Coupe, apply a minimum of 10 gallons per acre of spray solution with a nozzle pressure between 40-60 psi for optimum coverage.

**AERIAL APPLICATION:**

PURSUIT DG herbicide may be applied by air only to soybeans. DO NOT apply by air to peanuts.

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. When applied POSTEMERGENCE, the addition of a non-ionic surfactant AND fertilizer solution are required for optimum weed control. Apply a non-ionic surfactant at the rate of 1 quart per 100 gallons of spray mixture OR a crop oil concentrate at the rate of 1.5 pints per acre AND a liquid fertilizer at the rate of 1 quart per acre. (See instructions under APPLICATION INSTRUCTIONS - POSTEMERGENCE).

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.

- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph. Coarse sprays (larger droplets) are less likely to drift.

Applicator is responsible for any loss or damage which results from spraying PURSUIT DG in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

12017

APPLICATION INFORMATION

POSTEMERGENCE

PURSUIT DG is effective in controlling weeds in conservation tillage as well as in conventional production systems. Apply PURSUIT DG herbicide as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. Delay application until the majority of the weeds are at the recommended growth stage. Application timing should be based on weed size and not crop growth stage. Apply PURSUIT DG to crops and weeds that are actively growing.

An adjuvant (either a surfactant or a crop oil concentrate) and a liquid fertilizer must be added to the spray solution for optimum weed control activity. See the ADDITIVE section under MIXING INSTRUCTIONS for specific instructions.

When PURSUIT DG is applied postemergence, absorption will occur through both the roots and foliage. Susceptible weeds stop growing and either die or are not competitive with the crop. PURSUIT DG not only controls many existing broadleaf and grass weeds when applied postemergence, it also provides control of susceptible weeds that may emerge after application.

For maximum weed control, cultivate 7 - 10 days following a postemergence PURSUIT DG application. This timely cultivation will enhance residual weed control, especially under dry conditions.

If air temperatures reach or stay below 40° for 10 or more hours, delay a PURSUIT DG application for 48 hours from the time temperatures increase above 40° or until weeds are actively growing. Unusually cool temperatures (40° or less) reduce photosynthesis and transpiration. This reduces the uptake and translocation (and effectiveness) of PURSUIT DG in weeds.

Use a soil applied grass herbicide (such as PROWL®) to control grass weeds not on the PURSUIT DG label and to enhance the control of certain broadleaf weeds such as common lambsquarter. Refer to the PROWL (or other grass herbicide) label for specific use recommendations, rates and precautions.

PURSUIT DG should be applied a minimum of one hour before rainfall or overhead irrigation.

**NO-TILL/MINIMUM TILLAGE AND DOUBLECROP SOYBEANS:**

PURSUIT DG controls existing weeds and provides residual control of most weeds when applied early postemergence in no-till, minimum tillage and doublecrop soybean production systems. The application may be applied either before or after emergence of the soybeans. (Refer to the WEEDS CONTROLLED POSTEMERGENCE chart for weeds controlled and recommended weed size).

If PURSUIT DG is applied prior to emergence of the crop, and weeds exceed the recommended size, a contact herbicide should be added to PURSUIT DG to enhance control. (See instructions for NO-TILL OR REDUCED TILLAGE under the PREEMERGENCE section of this label).

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## SOIL APPLICATIONS

PURSUIT DG provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. PURSUIT DG can be applied as an early preplant, preplant incorporated, or preemergence treatment in soybeans. It can also be applied in conventional, minimum tillage and no-till production systems. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator.

Adequate soil moisture is required for optimum activity. Rainfall or overhead irrigation is necessary to move PURSUIT DG into the weed germination zone. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after treatment, a cultivation is recommended to control escaped weeds. When adequate moisture is received after dry conditions, PURSUIT DG will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

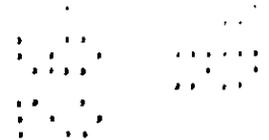
PURSUIT DG controls weeds by uptake by weed roots and translocation to the growing points where it stops weed growth. Susceptible weeds may emerge, growth will stop and the weeds will either die or are not competitive with the crop.

### SOIL APPLICATIONS WITH LIQUID FERTILIZERS

PURSUIT DG can be applied to the soil in liquid fertilizers, alone or in combination with PROWL, trifluralin, Lasso or Dual. Follow all PURSUIT DG label recommendations regarding incorporation, timing of application, special instructions and precautions. Apply treatments in 20 or more gallons of liquid fertilizer per acre with ground equipment. Always test the compatibility of PURSUIT DG with the liquid fertilizer before mixing in the spray tank.

### PREEMERGENCE (SURFACE APPLICATIONS)

PURSUIT DG offers flexibility in that it can be utilized in all production tillage systems. It can be applied prior to planting (up to 45 days prior to planting), at planting in conventional, reduced tillage or no-till production systems, or after planting and before crop emergence.



NO-TILL OR REDUCED TILLAGE:

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Apply PURSUIT DG treatments before, during or after planting but before crop emergence. To ensure thorough coverage, use a minimum of 20 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues.

For maximum grass control, tank-mix PURSUIT DG with PROWL, Lasso or Dual. To kill existing vegetation, Gramoxone Extra, Starfire or Roundup may be tank-mixed with PURSUIT DG alone or in combination with PROWL, Lasso or Dual. Gramoxone Extra, Starfire or Roundup should be deleted from the tank-mixture if vegetation is absent at the time of application.

NOTE: Adjust planters to ensure adequate seed coverage.

PREPLANT INCORPORATED APPLICATIONS

PURSUIT DG may be applied following land preparation and should be thoroughly incorporated to a depth of 1 to 2 inches. When applied to beds, maintain PURSUIT DG in the surface 1 to 2 inches of the finished beds. Application may be made up to 45 days prior to planting soybeans. Mechanical incorporation can be achieved by one of the following:

- (a) Disk harrow set to cut 3 to 4 inches deep and operated at 4 to 6 mph with the second pass at an angle to the first.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 inches deep and operated one time at 4 mph or less.
- (c) Rolling cultivator set to cut 2 to 4 inches deep and operated two times at 6 to 8 mph with the second pass at an angle to the first. Use only on coarse textured soils.
- (d) Field cultivator with 3 or 4 rows of sweeps (Do not use chisel points), spaced at intervals of 7 inches or less and staggered so that no soil is left unturned, set to cut 3 inches deep, and operated two times at more than 5 mph with the second pass at an angle to the first.
- (e) LELY-ROTERRA<sup>4</sup> set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT DG to a depth of 1 to 3 inches.
- (f) Do-All set and operated according to the manufacturer's directions to incorporate PURSUIT DG 1 to 3 inches deep and operated at 4 to 6 mph.

If soybeans are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator.

When PURSUIT DG is soil applied for control of nutsedge in peanuts incorporate with two passes of the incorporation implement. Make the second pass at an offset angle to the first pass to minimize the potential for streaking.

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<sup>4</sup>LELY-ROTERRA is a trademark of Lely.

CROPS

SOYBEANS - DIRECTIONS FOR USE

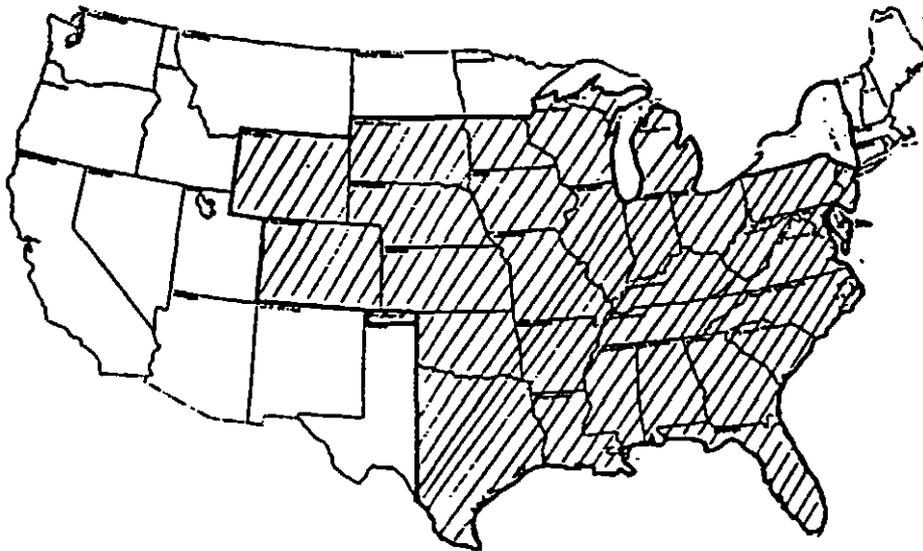
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PURSUIT DG HERBICIDE USE AREA (SOYBEANS)

(Not for use in California)

PURSUIT DG may be applied to soybeans only in the states or parts of states shaded in the map below:

(In Minnesota PURSUIT DG may be applied south of state highway 210. In Texas PURSUIT DG may be applied east of state highway 83).



USE RATE

1.4 OUNCES PER ACRE

(1 soluble bag (0.45 POUNDS) treats 5 acres)

Apply PURSUIT DG at a broadcast rate of 1 soluble bag (0.45 pounds) per 5 acres for all methods of application: early preplant, preplant incorporated, preemergence, and postemergence (including minimum and no-till). At this broadcast rate, one soluble bag of PURSUIT DG will treat 5 acres of soybeans.

NOTE: Only one application of PURSUIT DG may be made during the season.

WEEDS CONTROLLED

When applied as directed, PURSUIT DG will control or reduce competition from the weeds listed below. Refer to the ADDITIVES section on page 4 for recommendations when weeds are at the maximum recommended growth stage, or are under stress.

NOTE: C = Control, R = Reduced Competition

(The number under Maximum Leaf Stage indicates the MAXIMUM number of leaves at which weeds should be sprayed postemergence).

## BROADLEAF WEEDS

16097

Weeds Controlled	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (inches)
Anoda, spurred	C	2	1-2
Artichoke, Jerusalem		8	6-10
Buffalobur	C*		
Bristly starbur		2	1-2
Carpetweed	C		
Cocklebur, common**	C**	8	1-8
Galinsoga	C		
Jimsonweed	C*	4	1-3
Kochia	C	4	1-3
Lambsquarters, common	C*	2	1-2
Mallow, Venice /	R		
Marshelder /	C	4	1-3
Morningglory			
entireleaf	R	2	1-2
ivyleaf	R	2	1-2
pitted	R	2	1-2
smallflower	C	4	1-3
tall	R	2	1-2
Mustard sp.	C	4	1-3
Nightshade			
black	C	4	1-3
Eastern black	C	4	1-3
hairy	C	4	1-3
Pigweed			
palmer	C	8	1-8
redroot	C	8	1-8
smooth	C	8	1-8
spiny	C	8	1-8
Poinsettia, wild	C		
Puncturevine	C		
Purslane, common	C		
Pusley, Florida	C		
Sida, prickly	C*		
Ragweed,			
common	R	4	1-3
giant	R	4	1-3
Sage, barnyard		R	1-3
Smartweed			
ladysthumb	C	4	1-3
Pennsylvania	C	4	1-3
Spurge			
prostrate	C	4	1-3
spotted	C	4	1-3
Sunflower, common	C*	4	1-3
Velvetleaf	C*	4	1-3
Thistle, Canada		R	1-3
Waterhemp, tall	C	4	1-3

\* When soil applied, common lambsquarters, jimsonweed, prickly sida, velvetleaf and common sunflower are more consistently controlled by preplant incorporated treatments.

\*\* Must be preplant incorporated for best results. Cultivation and or a postemergence herbicide may be required for season-long results.

## GRASS WEEDS\*

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Weeds Controlled	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (inches)
Barnyardgrass	R	3	1-3
Crabgrass, large	R	3	1-3
smooth	R	3	1-3
Cupgrass, woolly		3**	1-3
Foxtail, giant	C	6	1-6
green	C	3	1-3
yellow	C	3	1-3
Goosegrass	R		
Johnsongrass, seedling	C	6	1-8
rhizome		R	1-8
Millet, wild proso	R	R	1-3
Panicum, fall	R		
Texas	R		
Red rice		3	1-3
Shattercane	R	6	1-8
Signalgrass, broadleaf	R	4	1-8
Sorghum, alnum	R	6	1-3

## SEDGES

Nutsedge purple	R	R	1-3
yellow	R	R	1-3

\* When soil applied to grasses, more consistent control can be obtained from preplant incorporated treatments.

\*\* PURSUIT DG controls emerged woolly cupgrass only.

Do not count cotyledon leaves when determining weed stage of growth.

PURSUIT DG is active against many broadleaf and grass species. However, when heavy grass or common lambsquarters pressure is anticipated, PURSUIT DG should be used in combination with a registered soil-applied grass herbicide (See HERBICIDE COMBINATIONS section).

## GRASS WEEDS

When heavy grass pressure or common lambsquarters is anticipated, PURSUIT DG should be used in combination with one of the following registered soil-applied grass herbicides; PROWL herbicide, trifluralin, Lasso or Dual.

When applied as directed, PURSUIT DG preplant incorporated or preemergence combination treatments with PROWL, trifluralin, Lasso or Dual will control the weeds listed in following table, in addition to those controlled by PURSUIT DG alone.

	PROWL <sup>a</sup>	trifluralin <sup>b</sup>	Lasso	Dual
<b>GRASSES</b>				
Barnyardgrass	X	X	X	X
Crabgrass, smooth	X	X	X	X
Crabgrass, large	X	X	X	X
Crowfootgrass	X	X		
Goosegrass	X	X	X	X
[Millet, wild proso]	X	X		
Panicum, fall	X	X	X	X
Panicum, Texas	X	X		
Sandbur, field	X	X		
Shattercane	x <sup>b</sup>	X		
Signalgrass, broadleaf	x <sup>b</sup>	X	X	X
Witchgrass	X	X	X	X

<sup>a</sup> Preplant incorporated tank-mixture applications of PURSUIT DG plus PROWL will suppress the growth of itchgrass, and rhizome johnsongrass.

<sup>b</sup> Preplant incorporated treatments only.

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A selective postemergence grass herbicide such as Select<sup>5</sup> Poast Plus<sup>6</sup>, Fusilade 2000<sup>7</sup>, Fusion<sup>7</sup>, Assure<sup>8</sup> or Option<sup>9</sup> may be mixed with PURSUIT DG to control volunteer corn or grasses not controlled by PURSUIT DG. For best results use SUN-IT II or a crop oil concentrate AND liquid fertilizer with grass herbicide tank-mixtures.

In some cases the activity of the grass herbicide may be reduced when mixed with PURSUIT DG. The reduction in activity may be overcome by delaying the application of the postemergence grass herbicide 7 days following the application of PURSUIT DG. If the grass herbicide is applied first, wait 3 days before applying PURSUIT DG. Refer to the respective grass herbicide label for recommended application rate, weed size and restrictions.

#### BROADLEAF WEEDS

Broadleaf herbicides that can be tank-mixed with PURSUIT DG include Basagran<sup>6</sup>, Blazer<sup>6</sup>, Bronco<sup>10</sup>, Cobra<sup>5</sup>, Galaxy<sup>8</sup>, Gramoxone Extra<sup>7</sup>, Roundup<sup>10</sup>, Storm<sup>6</sup>, or Reflex<sup>7</sup>. Certain herbicides should not be applied with PURSUIT DG (see Page 22 for restrictions).

PURSUIT DG may be applied either preplant incorporated or preemergence in tank-mix combination with metribuzin (Sencor<sup>11</sup> or Lexone<sup>7</sup>) or preemergence with linuron (Lorox<sup>7</sup> or Linex<sup>12</sup>). PURSUIT DG may also be applied preplant incorporated, followed by a preemergence application of metribuzin or linuron. The tank-mix or sequential application of PURSUIT DG and metribuzin will enhance the control of common cocklebur and common ragweed in addition to the weeds controlled by a soil application of PURSUIT DG. The addition of linuron to PURSUIT DG will enhance the control of common ragweed.

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<sup>5</sup>Cobra and Select are trademarks of Valent Chemical Co.

<sup>6</sup>Basagran, Blazer, Storm, and Poast Plus are trademarks of BASF Corporation.

<sup>7</sup>Fusilade 2000, Fusion, Gramoxone Extra and Reflex are trademarks of ICI Americas, Inc.

<sup>8</sup>Assure, Galaxy, Lexone and Lorox are trademarks of E. I. duPont de Nemours & Co., Inc.

<sup>9</sup>Option is a trademark of Hoechst-Roussel Agri-Vet Company.

<sup>10</sup>Bronco and Roundup are trademarks of Monsanto Agricultural Products Co.

<sup>11</sup>Sencor is a trademark of Mobay Corporation.

<sup>12</sup>Linex is a trademark of Griffin Ag Products Co., Inc.

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PURSUIT DG USE AREA (PEANUTS)

PURSUIT DG may be used on peanuts in any state where peanuts are grown.

PURSUIT DG HERBICIDE USE RATE  
(1.4 OUNCES PER ACRE)

Apply PURSUIT DG at a broadcast rate of 1 soluble bag per 5 acres (0.45 pounds) for all methods of application (except sequential - see below): preplant incorporated, preemergence, ground-cracking and postemergence. At this broadcast rate, one soluble bag of PURSUIT DG will treat 5 acres of peanuts.

PURSUIT DG may also be applied in a sequential application (See p. 18) Apply 1 soluble bag per 10 acres in a soil application (preplant incorporated or preemergence) followed by 1 soluble bag per 10 acres applied at ground-crack or postemergence.

NOTE: Do not apply more than 1.4 ounces per acre (1 soluble bag per 5 acres) of PURSUIT DG during the growing season.

WEEDS CONTROLLED

When applied as directed, PURSUIT DG will control or reduce competition from the weeds listed below. Refer to the ADDITIVES section on page 4 for recommendations when weeds are at the maximum recommended growth stage, or are under stress.

NOTE: C = Control, R = Reduced Competition

(The number under Maximum Leaf Stage indicates the MAXIMUM number of leaves at which weeds should be sprayed postemergence).

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BROADLEAF WEEDS

Weeds Controlled	SOIL APPLIED	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (inches)
Anoda, spurred	C	C	2	1-2
Buffalobur	C*	C		
Bristly starbur			2	1-2
Carpetweed	C	C		
Cocklebur, common	C**	C	8	1-8
Devilsclaw	C	C		
Galinsoga	C	C		
Jimsonweed	C*	C	4	1-3
Lambsquarters, common	C*	C	2	1-2
Morningglory				
entireleaf	R	C	2	1-2
ivyleaf	R	C	2	1-2
pitted	R	C	2	1-2
smallflower	C	C	4	1-3
tall	R	C	2	1-2
Mustard sp.	C	C	4	1-3
Nightshade				
black	C	C	4	1-3
Eastern black	C	C	4	1-3
hairy	C	C	4	1-3
Pigweed				
palmer	C	C	8	1-8
redroot	C	C	8	1-8
smooth	C	C	8	1-8
spiny	C	C	8	1-8
Poinsettia, wild	C	C		
Puncturevine	C	C		
Purslane, common	C	C		
Pusley, Florida	C	C		
Ragweed,				
common	R	R	4	1-3
giant	R	R	4	1-3
Sida, prickly (teaweed)	C*	C		
Smartweed				
ladysthumb	C	C	4	1-3
Pennsylvania	C	C	4	1-3
Spurge				
prostrate	C	C	4	1-3
spotted	C	C	4	1-3
toothed	C	C		
Sunflower, common	C*	C	4	1-3
Velvetleaf	C*	C	4	1-3
Waterhemp, tall	C	C	4	1-3

\* When soil applied, common lambsquarters, jimsonweed, prickly sida, velvetleaf and common sunflower are more consistently controlled by preplant incorporated treatments.

\*\* Must be preplant incorporated for best results. Cultivation and or a postemergence herbicide may be required for season-long results.

## GRASS WEEDS

Weeds Controlled	SOIL APPLIED*	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (inches)
Barnyardgrass	R	R	3	1-3
Crabgrass,				
large	R	C	3	1-3
smooth	R	C	3	1-3
Cupgrass, woolly			3**	1-3
Foxtail,				
giant	C	C	6	1-6
green	C	C	3	1-3
yellow	C	C	3	1-3
Goosegrass	R	R		
Johnsongrass,				
seedling	C	C	6	1-8
rhizome			R	1-8
Panicum,				
fall	R			
Texas	R			
Red rice			3	1-3
Shattercane	R	R	6	1-8
Signalgrass, broadleaf	R	C	4	1-6
SEDGES				
Nutsedge				
purple	C	C	3	1-3
yellow	C	C	3	1-3

\* When soil applied to grasses, more consistent control can be obtained from preplant incorporated treatments.

\*\* PURSUIT DG controls emerged woolly cupgrass only.

Do not count cotyledon leaves when determining weed stage of growth.

AT CRACK APPLICATION refers to the time when the soil cracks due to the emerging peanut seedling. This generally occurs from 10 to 14 days following planting. At this time weeds have generally not germinated, or are in the seedling stage. If weeds have more than 2 true leaves, refer to the POSTEMERGENCE weed control column for weeds controlled.

In West Texas, New Mexico and Arizona, wait until late cracking (most of the peanuts have emerged) before applying PURSUIT DG.

PURSUIT DG is active against many broadleaf and grass species. However, when heavy grass or common lambsquarters pressure is anticipated, PURSUIT DG should be used in combination with a registered soil-applied grass herbicide (See HERBICIDE COMBINATIONS section).

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**WEEDS CONTROLLED BY SEQUENTIAL APPLICATIONS OF PURSUIT DG**

The sequential (split) application of PURSUIT DG consists of an application of 1 soluble bag of product per 10 acres applied either preplant incorporated or preemergence, followed by 1 soluble bag of product per 10 acres applied either at ground-crack or postemergence.

When applied as a sequential treatment, PURSUIT DG will control the weeds listed under the "WEEDS CONTROLLED BY SOIL AND GROUND CRACKING APPLICATIONS OF PURSUIT DG ALONE" section. It enhances the control of yellow and purple nutsedge. Apply the second application before the nutsedge exceeds 3 leaves.



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**HERBICIDE COMBINATIONS**

**GRASS WEEDS**

When applied as directed, PURSUIT DG preplant-incorporated or preemergence combination treatments with PROWL<sup>®</sup> herbicide, trifluralin, Lasso, Dual, Balan<sup>13</sup> Sonolan<sup>13</sup> or Vernam<sup>14</sup> will control the weeds listed in following table, in addition to those controlled by PURSUIT DG alone.

	PROWL <sup>a</sup>	trifluralin <sup>b</sup>	Lasso	Dual	Balan <sup>b</sup>	Sonalan <sup>b</sup>	Vernam <sup>b</sup>
<b>GRASSES</b>							
Barnyardgrass	X	X	X	X	X	X	X
Crabgrass, smooth	X	X	X	X	X	X	X
Crabgrass, large	X	X	X	X	X	X	X
Crowfootgrass	X	X			X		
Goosegrass	X	X	X	X	X	X	X
Panicum, fall	X	X	X	X	X	X	X
Panicum, Texas	X	X			X	X	
Sandbur, field	X	X			X	X	
Signalgrass, broadleaf	X <sup>b</sup>	X	X	X	X	X	
Witchgrass	X	X	X	X		X	

<sup>a</sup> Preplant incorporated tank-mixture applications of PURSUIT DG plus PROWL will suppress the growth of itchgrass, and rhizome johnsongrass.

<sup>b</sup> Preplant incorporated treatments only.

A selective postemergence grass herbicide such as Poast Plus, Bugle<sup>15</sup> or Whip<sup>15</sup> may be mixed with PURSUIT DG to control grasses not controlled by PURSUIT DG. In some cases the activity of the grass herbicide may be reduced when mixed with PURSUIT DG. The reduction in activity may be overcome by delaying the application of the postemergence grass herbicide 7 days following the application of PURSUIT DG. If the postemergence grass herbicide is applied first, wait 3 days before applying PURSUIT DG. Refer to the respective grass herbicide label for recommended application rate, weed size and restrictions.

<sup>13</sup>Balan and Sonalan are trademarks of Elanco Products Company.

<sup>14</sup>Vernam is a trademark of ICI Americas Inc.

<sup>15</sup>Whip and Bugle are trademarks of Hoechst-Roussel Agri-Vet Company

BROADLEAF WEEDS

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Broadleaf herbicides that can be tank-mixed with PURSUIT DG include Basagran and Blazer, Starfire and 2,4-DB. Certain herbicides should not be applied with PURSUIT DG (see Page 22 for restrictions).

For the control of sicklepod, morningglories, prickly sida and common ragweed, add 2,4-DB to the PURSUIT DG spray mixture. For the control of Florida beggarweed, add Starfire to the spray mixture. Refer to the 2,4-DB or Starfire label for specific directions for use, application rates and restrictions.

PURSUIT DG may also be applied postemergence in tank-mixture with Bravo<sup>16</sup>, Bravo S<sup>16</sup> Orthene<sup>17</sup> or Solubor<sup>18</sup>.

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<sup>16</sup>Bravo and Bravo S are trademarks of Fermenta ASC Corp.

<sup>17</sup>Orthene is a trademark of Valent Chemical Co.

<sup>18</sup>Solubor is a trademark of U.S. Borax & Chemical Corp.

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ROTATIONAL CROPS

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The following rotational crops may be planted after applying PURSUIT DG at the recommended rate in soybeans:

1. Anytime
  - Lima beans
  - Southern peas
  - Soybeans
  - Peanuts
  - Resistant field corn
2. Four months after PURSUIT DG application:
  - Rye
  - Wheat
  - Edible beans and peas (other than lima beans and Southern peas)
3. Nine and one-half months after PURSUIT DG application:
  - Barley
  - Field corn
  - Field corn grown for seed\*
  - Tobacco
4. Eighteen months after PURSUIT DG application:
  - Alfalfa
  - Cotton
  - Lettuce
  - Oats
  - Popcorn
  - Safflower
  - Sorghum
  - Sweet corn
5. Twenty six months after PURSUIT DG application.
  - All crops not listed elsewhere in this ROTATIONAL CROP GUIDELINE.
6. Forty months after PURSUIT DG application.
  - Sugarbeets

\* Several seed companies have tested a wide range of inbreds for sensitivity to PURSUIT DG soil residues and have reported good crop safety. However, due to the proprietary nature of seed production, American Cyanamid has not been given access to the inbred data. Growers are directed to contact the seed company for information and recommendations regarding the planting of corn grown for seed in fields treated with PURSUIT DG the previous year. Since growing conditions, environmental conditions and grower practices are beyond the control of American Cyanamid Company, all risks and consequences associated with planting seed corn inbreds into fields treated previously with PURSUIT DG shall be assumed by the user.

Use of PURSUIT 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.

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PRECAUTIONS

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If soybeans are furrow irrigated, till the soil prior to planting winter wheat or barley. The beds should be broken up and the soil mixed with tillage equipment set to cut 4-6 inches deep.

Only rotational crops harvested at maturity may be used for feed or food.

In the event of a crop loss due to weather, soybeans, peanuts or resistant field corn can be replanted. DO NOT work the soil deeper than 2 inches.

There should be an interval of at least 85 days between an application of PURSUIT DG and soybean or peanut harvest.

PURSUIT DG applications should be made before soybean bloom.

Do not graze or feed treated soybean forage, hay or straw to livestock.

Do not graze or feed treated peanut forage, vines, hay or straw to livestock.

Except where stated on a Supplemental Label or in this label, DO NOT apply to soybeans products containing chlorimuron ethyl (Classic<sup>19</sup>, Canopy<sup>19</sup>, Gemini<sup>19</sup>, Lorox Plus<sup>19</sup>, Preview<sup>19</sup>, etc.) imazaquin (SCEPTER<sup>®</sup>, SQUADRON<sup>®</sup>, TRI-SCEPT<sup>®</sup>, SCEPTER<sup>®</sup> O.T.<sup>®</sup>, SCEPTER<sup>®</sup> 70DG) or products containing imazethapyr (PURSUIT DG, PURSUIT DG<sup>®</sup> PLUS, PASSPORT<sup>®</sup>) the same year as PURSUIT DG or injury to follow crops may occur.

Note: Classic may be applied postemergence to peanuts following a PURSUIT DG application. Refer to the Classic label for specific use recommendations.

DO NOT apply PURSUIT DG<sup>®</sup> PLUS or PASSPORT<sup>®</sup> to peanuts the same year as PURSUIT DG.

DO NOT tank-mix PURSUIT DG with clomazone containing herbicides (Command<sup>20</sup> or Commence<sup>20</sup>). PURSUIT DG may be applied postemergence following a soil application of Command or Commence.

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<sup>19</sup>Classic, Canopy, Gemini, Lorox Plus and Preview are trademarks of E. I. duPont de Nemours and Company.

<sup>20</sup>Command and Commence are trademarks of FMC Corporation.

<sup>®</sup>Registered Trademarks of American Cyanamid Company.

For additional information regarding the use of PURSUIT DG herbicide, call telephone no. 800-942-0500.

American Cyanamid Company  
Agricultural Division  
Crop Protection Chemicals Department  
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