

Reg # 241-310

PM-25

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PURSUIT®
herbicide

FOR USE IN PEANUTS

ACCEPTED
MAY 23 1991
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 241-310

ACTIVE INGREDIENT:

Ammonium salt of imazethapyr (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid*..... 22.87%

INERT INGREDIENTS..... 77.13%

TOTAL..... 100.00%

*Equivalent to 21.6% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

(1 gallon contains 2.0 pounds of active ingredient as the free acid)

EPA Reg. No. 241-310

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 with plenty of water.

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: 1 gallon
(3.78 liters)

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. 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 wetlands (swamps, bogs, marshes and potholes).

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. Do not use PURSUIT other than in accordance with the instructions set forth on this label. The use of PURSUIT 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.

STORAGE AND DISPOSAL

PROHIBITIONS:

KEEP FROM FREEZING

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DO NOT store below 32°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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of 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, 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.

American Cyanamid Company's liability will be limited to a refund of the purchase price of PURSUIT. 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)

This product is not to be used in combination with any other product except as specifically recommended in writing by American Cyanamid Company and 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.

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GENERAL INFORMATION

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

PURSUIT can be applied preplant incorporated, preemergence, at ground-crack, or early postemergence in peanuts. The product may also be applied in a split treatment (sequential application) for difficult to control weeds. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator. Refer to the specific treatment under the "APPLICATION INSTRUCTIONS" section of the label.

The mode of weed killing activity involves uptake of PURSUIT by weed roots and/or foliage and rapid translocation to the growing points. Adequate soil moisture is important for optimum PURSUIT activity. When adequate soil moisture is present, PURSUIT 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 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 peanut plants may occur following PURSUIT applications. This will not affect peanut yields.

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

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MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Use a calibrated measuring device to measure the required amount of PURSUIT. Add PURSUIT to the spray tank while agitating. Fill the remainder of the tank with water.

For postemergence applications, add a nonionic surfactant to the spray tank. The addition of a liquid fertilizer (10-34-0, 28 or 32% nitrogen) may be added for enhanced weed control from PURSUIT. Ammonium sulfate may be used in place of a liquid fertilizer. Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

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

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

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 cotton.

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). The nozzle spacing on the boom should be 20 inches. Use only standard flat-fan nozzle tips.

DO NOT apply by aerial application.

Avoid overlaps when spraying.

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USE RATE
(4 OUNCES PER ACRE)

Apply PURSUIT at a broadcast rate of 4 ounces per acre (1/4 pint) for all methods of application (except sequential - see below): preplant incorporated, preemergence, ground-cracking and postemergence. At this broadcast rate, one gallon of PURSUIT will treat 32 acres of peanuts.

PURSUIT may also be applied in a sequential application for increased suppression of difficult to control weeds. Apply 2 ounces in a soil application (preplant incorporated or preemergence) followed by 2 ounces applied at ground-crack or postemergence.

NOTE: Do not apply more than 4 ounces of PURSUIT during the growing season.

WEEDS CONTROLLED BY SOIL APPLICATIONS OF
PURSUIT ALONE

When applied as directed, PURSUIT soil-applied will control the following weeds:

BROADLEAF WEEDS

- | | |
|------------------------|-------------------------|
| Anoda, spurred | Pigweed |
| Buffalobur | palmer |
| Carpetweed | redroot |
| Cocklebur, common** | smooth |
| Copperleaf, | spiny |
| Virginia | Poinsettia, wild |
| hophornbeam** | Puncturevine |
| Devilsclaw | Purslane, common |
| Eclipta | Pusley, Florida |
| Galinsoga | Sida, prickly (teaweed) |
| Indigo, hairy | Smartweed |
| Jimsonweed* | ladysthumb |
| Kochia | Pennsylvania |
| Lambsquarters, common* | Spurge |
| Mallow, Venice | prostrate |
| Morningglory*** | spotted |
| | toothed |
| | Sunflower, common |
| | Velvetleaf |
| | Waterhemp, |
| | tall |
| smallflower | |
| Mustard species | |
| Nightshade | |
| black | |
| Eastern black | |
| hairy | |

GRASSES

- | | |
|---------------|--------------|
| Foxtail | Johnsongrass |
| giant | seedling |
| giant green | Panicum |
| green | fall |
| robust purple | Texas |

SEDGES

- Nutsedge
- yellow
- purple

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* Common lambsquarters, jimsonweed, velvetleaf, common sunflower and grass species are more consistently controlled by preplant incorporated treatments.

** Light to moderate infestations only. Must be preplant incorporated for best results.

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(THE SEPARATE GROUND CRACK WEED LIST HAS BEEN ADDED)

WEEDS CONTROLLED BY GROUND CRACKING APPLICATIONS OF PURSUIT ALONE

When applied as directed, PURSUIT applied at ground cracking will control the following weeds:

BROADLEAF WEEDS

Anoda, spurred
 Buffalobur
 Carpetweed
 Cocklebur, common
 Copperleaf,
 Virginia
 hophornbeam
 Devilsclaw
 Eclipta
 Galinsoga
 Indigo, hairy
 Jimsonweed
 Kochia
 Lambsquarters, common
 Mallow, Venice
 Morningglory
 entireleaf
 ivyleaf
 pitted
 smallflower
 tall
 Mustard species
 Nightshade
 black
 Eastern black
 hairy

Pigweed
 palmer
 redroot
 smooth
 spiny
 Poinsettia, wild
 Puncturevine
 Purslane, common
 Pusley, Florida
 Sida, prickly (teaweed)
 Smartweed
 ladysthumb
 Pennsylvania
 Spurge
 prostrate
 spotted
 toothed
 Sunflower, common
 Velvetleaf
 Waterhemp,
 tall

GRASSES

Crabgrass
 Foxtail
 giant
 giant green
 green
 robust purple

Johnsongrass
 seedling
 Panicum
 fall
 Texas
 Signalgrass
 broadleaf

SEDGES

Nutsedge
 yellow
 purple

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PURSUIT soil applied or at ground crack will aid in the control of and reduce competition from: barnyardgrass, goosegrass and shattercane.

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WEEDS CONTROLLED BY SEQUENTIAL APPLICATIONS OF PURSUIT

The sequential (split) application of PURSUIT consists of an application of 2 ounces of product soil applied (either preplant incorporated or preemergence) followed by 2 ounces applied either at ground-crack or postemergence.

When applied as a sequential treatment, PURSUIT will control the weeds listed under the "WEEDS CONTROLLED BY SOIL AND GROUND CRACKING APPLICATIONS OF PURSUIT ALONE" section. It enhances the control of yellow and purple nutsedge. Apply the second application before the nutsedge exceeds 5 leaves.

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WEEDS CONTROLLED BY
PREPLANT AND PREEMERGENCE COMBINATION TREATMENTS

When applied as directed, PURSUIT preplant incorporated or preemergence combination treatments with PROWL[®] herbicide, trifluralin, Lasso¹, Dual², Balan³ Sonolan³ or Vernam⁴ will control the weeds listed in following table, in addition to those controlled by PURSUIT alone.

	PROWL ^a	trifluralin ^b	Lasso	Dual	Balan ^b	Sonalan ^b	Vernam ^b
GRASSES							
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	X	X	X	X	X	
Witchgrass	X	X	X	X		X	

^a Preplant incorporated tank-mixture applications of PURSUIT plus PROWL will suppress the growth of itchgrass, and rhizome Johnsongrass.

^b Preplant incorporated treatments only.

[®]Registered Trademark of American Cyanamid Company.

¹Lasso is a trademark of Monsanto Agricultural Products Company.

²Dual is a trademark of Ciba-Geigy Corporation.

³Balan and Sonalan are trademarks of Elanco Products Company.

⁴Vernam is a trademark of ICI Americas Inc.

SOIL APPLICATIONS

PURSUIT can be applied preplant incorporated or preemergence in peanuts. When PURSUIT is applied to the soil, susceptible weeds may emerge, growth will stop and the weeds will either die or are not competitive with the crop.

HERBICIDE COMBINATIONS

Although PURSUIT is active against many grass species, it should be used in combination with one of the following registered soil-applied grass herbicides; PROWL herbicide, trifluralin, Balan, Sonolan, Lasso or Dual.

When PURSUIT 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 cannot be mixed with any product containing a label prohibiting such mixtures.

SOIL APPLICATIONS WITH LIQUID FERTILIZERS

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

PREPLANT INCORPORATED APPLICATIONS

PURSUIT may be applied following land preparation and should be thoroughly incorporated to a depth of 1 to 2 inches. 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 2-3 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-ROTERRA⁵ set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT to a depth of 1 to 3 inches.
- (f) Do-All set and operated according to the manufacturer's directions to incorporate PURSUIT 1 to 3 inches deep and operated at 4 to 6 mph.

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

⁵LELY-ROTERRA is a trademark of Lely.

PREEMERGENCE (SURFACE APPLICATIONS)

PURSUIT may be applied after planting peanuts. If moisture is insufficient, a thorough shallow incorporation (preferably with a rotary hoe) is recommended to improve weed control. The tillage must be done before peanut germination. The tillage equipment and the incorporation depth must be kept above the seed or the seed will be damaged.

PURSUIT controls weeds by uptake by weed roots and translocation to the growing points where it stops weed growth.

Adequate soil moisture is required for optimum activity. For surface applications, rainfall or overhead irrigation is necessary to move PURSUIT 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 a surface-applied treatment, then a cultivation is recommended to control escaped weeds. When adequate moisture is received after dry conditions, PURSUIT 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.

DO NOT apply PURSUIT preemergence to peanuts in West Texas or New Mexico; injury to the peanuts may result.

NOTE: Adjust planters to ensure adequate seed coverage.

AT CRACK APPLICATIONS

At crack 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.

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

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WEEDS CONTROLLED POSTEMERGENCE

BROADLEAF WEEDS

Weeds Controlled up to 2 leaves (up to 2 inches)	Weeds Controlled up to 4 leaves (up to 3 inches)	Weeds Controlled up to 8 leaves
Anoda, spurred	Indigo, hairy	Artichoke,
Bristly starbur	Jimsonweed	Jerusalem (6-10")
Lambsquarter, common	Kochia	Cocklebur (1-8")
Morningglory species	Marshelder	Pigweed (1-8")
entireleaf	Morningglory	palmer
ivyleaf	smallflower	redroot
pitted	Mustard species	smooth
tall	Nightshade	spiny
	black	Waterhemp,
	Eastern black	tall
	hairy	
	Smartweed	
	ladysthumb	
	Pennsylvania	
	Spurge	
	prostrate	
	spotted	
	Sunflower, common	
	Velvetleaf	

GRASSES

Weeds controlled 1-3 leaves (1-3 inches)	Weeds Controlled 1-6 leaves (1-8 inches)
Barnyardgrass	Johnsongrass
Crabgrass	seedling
large	Shattercane
smooth	Signalgrass,
Cupgrass, woolly*	broadleaf
Foxtail	
giant	
green	
giant green	
robust purple	
robust white	
yellow	

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SEDGES

Weeds Controlled 1-3 leaves 1-4 inches
Nutsedge
yellow
purple

POSTEMERGENCE applications of PURSUIT will aid in the control and reduce competition from rhizome Johnsongrass.

*PURSUIT controls emerged woolly cupgrass only.

APPLICATION INSTRUCTIONS

POSTEMERGENCE

Apply PURSUIT herbicide as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. Application timing should be based on weed size and not peanut growth stage. Apply PURSUIT to peanuts and weeds that are actively growing and not under temperature or moisture stress.

ADDITIVES:

AT CRACK AND POSTEMERGENCE APPLICATIONS OF PURSUIT REQUIRE THE ADDITION OF A SURFACTANT:

SURFACTANTS: Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 qt./100 gal. or use the surfactant Dash¹ at the rate of 1 qt./acre. When weeds are under moisture or temperature stress, the surfactant Dash is recommended.

The addition of a fertilizer solution (10-34-0, 28 or 32% nitrogen) may enhance the weed control from PURSUIT. Add the fertilizer solution at the rate of 1-2 quarts per acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, ammonium sulfate may be used at the rate of 17 lbs. per 100 gallons of spray solution.

When PURSUIT 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 not only controls many existing broadleaf and grass weeds when applied postemergence, it also provides control of susceptible weeds that may emerge after application.

A timely cultivation aids in the control of certain weeds when moisture is not received following application. Cultivation should be shallow. After postemergence applications, wait at least 10 days before cultivating.

HERBICIDE COMBINATIONS

Broadleaf herbicides that can be tank-mixed with PURSUIT include Basagran⁶ and Blazer⁶, Gramoxone Extra⁷ and 2,4-DB. Do not include the additive Dash⁶ when Blazer is mixed with PURSUIT. Certain herbicides should not be applied with PURSUIT (see Page 18 for restrictions).

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

A selective postemergence grass herbicide such as Poast Plus⁶ may be mixed with PURSUIT to control grasses not controlled by PURSUIT. In some cases the activity of the grass herbicide may be reduced when mixed with PURSUIT. The reduction in activity may be overcome by delaying the application of the postemergence grass herbicide 7 days following the application of PURSUIT. Refer to the respective grass herbicide label for recommended application rate, weed size and restrictions.

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

⁶Basagran, Blazer, Poast Plus and Dash are trademarks of BASF Corporation.
⁷Gramoxone Super is a trademark of ICI Americas, Inc.

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ROTATIONAL CROPS

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

1. Anytime
 - Soybeans
 - Southern peas
2. Four months after PURSUIT application:
 - Barley
 - Wheat
 - Rye
3. Nine and one-half months after PURSUIT application:
 - Field corn
 - Tobacco

DO NOT plant sugarbeets, rapeseed (canola) or potatoes prior to 26 months after a PURSUIT application.

Sugarbeets are very sensitive to small amounts of PURSUIT in the soil. In addition to delaying the planting of sugarbeets 26 months, a field bioassay is required. The field bioassay will determine when it is safe to plant sugarbeets. To conduct the field bioassay, plant a strip of sugarbeets through the entire field and grow for 60 days. If no injury is observed, it is safe to plant sugarbeets the following year.

DO NOT plant other rotational crops prior to 18 months after a PURSUIT application.

Use of PURSUIT 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.

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

Do not graze wheat or rye forage prior to 60 days after planting.

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

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

Do not graze livestock on treated peanut crop and do not harvest treated peanut crop as forage, hay, straw or silage for livestock bedding or feed

DO NOT apply products containing imazaquin (i.e. SCEPTER®, SQUADRON®, TRI-SCEPT®, SCEPTER®O.T.®, SCEPTER® 70DG herbicides, etc.) the same year as PURSUIT or injury to follow crops may occur.

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Agricultural Division
Crop Protection Chemicals Department
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