

PURSUIT®
herbicide

FOR USE IN SOYBEANS

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.

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 explicado 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.

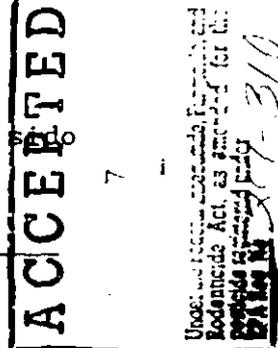
See Next Page for Additional Precautionary Statements

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)

8/30/89

®Registered Trademark of American Cyanamid Company



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.

Observe all cautions and limitations on this label and on the labels of products used in combination with PURSUIT. 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

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 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.

Any damages arising from breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

GENERAL INFORMATION

PURSUIT can be applied as an early preplant, preplant incorporated, preemergence or early postemergence treatment in soybeans. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator.

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.

Occasionally, internode shortening and/or temporary yellowing of soybean plants may occur following PURSUIT applications. This will not affect soybean yields.

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 and a liquid fertilizer solution (10-34-0, 28 or 32% nitrogen) as the last ingredients in the tank. A liquid fertilizer solution is required for optimum weed control. 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. When tank mixing Bronco¹ Roundup¹ or Gramoxone Super² with PURSUIT and PROWL[®], trifluralin, Lasso¹ or Dual³ add the herbicides in the following order: (1) PROWL, trifluralin, Lasso or Dual, (2) Roundup or Gramoxone Super, (3) PURSUIT, and (4) nonionic surfactant.

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

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 to minimum or no-till soybeans. Use higher gallonage for fields with dense vegetation or heavy crop residues.

DO NOT apply with ground equipment when wind velocity is greater than 10 mph, or when spray may be carried to sensitive crops. Sensitive crops include leafy vegetables, sugar beets, and cotton.

DO NOT apply by aerial application.

Avoid overlaps when spraying.

¹Bronco, Lasso and Roundup are trademarks of Monsanto Agricultural Products Company.

²Gramoxone Super is a trademark of ICI Americas, Inc.

³Dual is a trademark of Ciba Geigy Corporation.

[®]Registered trademark of American Cyanamid Company.

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: early preplant, preplant incorporated, preemergence (including minimum and no-till) and postemergence. At this broadcast rate, one gallon of PURSUIT will treat 32 acres of soybeans.

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

WEEDS CONTROLLED POSTEMERGENCE

BROADLEAF WEEDS

Weeds Controlled 1-2 leaves (1-2 inches)	Weeds Controlled 1-4 leaves (1-3 inches)	Weeds Controlled up to 8 leaves
Lambsquarters, common	Jimsonweed	Artichoke,
Morningglory species	Kochia	Jerusalem (6-10")
entireleaf	Morningglory	Cocklebur (1-8")
ivyleaf	smallflower	Pigweed (1-8")
pitted	Mustard species	palmer
tall	Nightshade	redroot
	black	smooth
	Eastern black	spiny
	hairy	Waterhemp,
	Ragweed	tall
	common	
	giant	
	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	
Cupgrass*	
woolly	
Foxtail	
giant	
green	
giant green	
robust purple	
robust white	
yellow	

POSTEMERGENCE applications of PURSUIT will aid in the control and reduce competition from broadleaf signalgrass, yellow nutsedge and 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 soybean growth stage. Apply PURSUIT to soybeans and weeds that are actively growing and not under temperature or moisture stress.

ADDITIVES:

USE A NON-IONIC SURFACTANT (AT LEAST 80% ACTIVE INGREDIENT) AT THE RATE OF 2 PINTS PER 100 GALLONS OF SPRAY MIXTURE. APPLY A FERTILIZER SOLUTION (PREFERABLY 10-34-0, OR 28% OR 32% NITROGEN) AT THE RATE OF 1 QT/A TO THE SPRAY SOLUTION FOR OPTIMUM WEED CONTROL. FERTILIZER SOLUTIONS AID IN THE CONTROL OF SEVERAL WEED SPECIES.

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 weed 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.

PURSUIT may be used in combination with some other registered broadleaf herbicides. (See Page 15 for restrictions.)

PURSUIT may be followed by postemergence applications of a selective postemergence grass herbicides such as Fusilade 2000⁴, Poast⁵, or Assure⁶. DO NOT tank mix PURSUIT with postemergence grass herbicides.

⁴Fusilade 2000 is a trademark of ICI Americas, Inc.

⁵Poast is a trademark of BASF Corporation.

⁶Assure is a trademark of E. I. duPont de Nemours & Co., Inc.

WEEDS CONTROLLED BY SOIL APPLICATIONS OF
PURSUIT ALONE

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

BROADLEAF WEEDS

Carpetweed
Cocklebur, common**
Galinsoga
Jimsonweed*
Kochia
Lambsquarters, common*
Morningglory
 small flower
Mustard species
Nightshade
 black
 Eastern black
 hairy
Pigweed
 palmer
 redroot
 smooth
 spiny
Puncturevine
Purslane, common
Pusley, Florida
Sida, prickly* (teaweed)
Smartweed
 ladysthumb
 Pennsylvania
Spurge
 prostrate
 spotted
Sunflower, common*
Velvetleaf*
Waterhemp,
 tall

GRASSES*

Foxtail
 giant
 giant green
 green
 robust purple
 robust white
 yellow
Johnsongrass
 seedling

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

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

PURSUIT soil applied will aid in the control of and reduce competition from:

Morningglory***

entireleaf

ivyleaf

pitted

tall

Ragweed

common

giant

Barnyardgrass***

Crabgrass

large

smooth

Goosegrass

Nutsedge, yellow

Panicum***

fall

Texas

Shattercane

Signalgrass

broadleaf

***More consistent control can be obtained from preplant incorporated treatments.

WEEDS CONTROLLED BY
PREPLANT AND PREEMERGENCE COMBINATION TREATMENTS

When applied as directed, PURSUIT 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 alone.

	PROWL ^a	trifluralin ^b	Lasso	Dual
GRASSES				
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
Panicum, fall	X	X	X	X
Panicum, Texas	X	X		
Sandbur, field	X	X		
Shattercane	x ^b	x ^b		
Signalgrass, broadleaf	X	X	X	X
Witchgrass	X	X	X	X

^a Preplant incorporated tankmix applications of PURSUIT plus PROWL will suppress the growth of itchgrass, wild proso millet and rhizome Johnsongrass.

^b Preplant incorporated treatments only.

SOIL APPLICATIONS

PURSUIT 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.

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

PURSUIT is active against many grass species. However, when heavy grass pressure is anticipated, PURSUIT should be used in combination with one of the following registered soil-applied grass herbicides; PROWL herbicide, trifluralin, 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. Apply treatments in 20 or more gallons of liquid fertilizer per acre w. ground equipment. Always test the compatibility of PURSUIT with the liquid fertilizer before mixing in the spray tank.

PREEMERGENCE (SURFACE APPLICATIONS)

PURSUIT offers flexibility in that it can be utilized in all production tillage systems. It can be applied prior to planting or at planting in conventional, reduced tillage or no-till production systems.

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.

CONVENTIONAL:

PURSUIT may be applied after planting soybeans but before crop emergence or up to 45 days prior to planting. If moisture is insufficient, a thorough shallow tillage or cultivation (preferably with a rotary hoe) is recommended to improve weed control.

NO-TILL OR REDUCED TILLAGE:

Apply PURSUIT 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 with PROWL, Lasso or Dual. To kill existing vegetation, Gramoxone Super or Roundup may be tank mixed with PURSUIT alone or in combination with PROWL, Lasso or Dual. Gramoxone Super or Roundup should be deleted from the tank mixture if vegetation is absent at the time of application. Refer to the respective labels for use rates and precautions.

NOTE: Adjust planters to ensure adequate seed coverage.

PREPLANT INCORPORATED APPLICATIONS

PURSUIT may be applied following land preparation and should be thoroughly incorporated to a depth of 1 to 2 inches. Application may be made up to 45 days prior to planting. 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-ROTERRA⁷ 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 soybeans are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator.

⁷LELY-ROTERRA is a trademark of Lely.

ROTATIONAL CROPS

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

1. Four months after PURSUIT application:
Barley
Wheat

2. Nine and one-half months after PURSUIT application:
Edible beans (snap, lima, dry)
Field corn
Peanuts
Peas
Tobacco

DO NOT plant sugar beets or rape (canola) prior to 26 months after a PURSUIT application.

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

If soybeans are furrow irrigated, till the soil prior to planting winter wheat. 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 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 and soybean harvest.

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

DO NOT apply products containing chlorimuron ethyl (e.g. Classic[®], Canopy[®], Gemini[®], Lorox Plus[®], Preview[®], etc.), or imazaquin (i.e. SCEPTER[®], SQUADRON[®], TRI-SCEPT[®]) the same year as PURSUIT or injury to follow crops may occur.

[®]Classic, Canopy, Gemini, Lorox Plus and Preview are trademarks of E. I. duPont de Nemours and Company.

[®]Registered Trademarks of American Cyanamid Company

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