

P/M 25 241-310

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**PURSUIT®**  
herbicide

**FOR USE IN ALFALFA**

**ACCEPTED**  
**JAN 09 1995**  
Under the Federal  
Fungicide, and Herbicide  
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**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail).

**STATEMENT OF PRACTICAL TREATMENT**

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

**IF IN EYES:** Flush with plenty of water.

**IF INHALED:** Remove victim to fresh air.

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

See Next Page for Additional Precautionary Statements

American Cyanamid Company  
Agricultural Products Division  
Crop Protection Chemicals Department  
Wayne, NJ 07470 ©1994

Net Contents 1 gallon  
(3.78 liters)

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS**

**CAUTION!**

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear:

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

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

**User Safety Recommendations:**

Users Should.

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

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark

DO NOT contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

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

### 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. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls
- waterproof gloves
- shoes plus socks

### STORAGE AND DISPOSAL

#### PROHIBITIONS:

KEEP FROM FREEZING

DO NOT store below 32°F.

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

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**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.

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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, herbicide resistant weed populations, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

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

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.** 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**

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**SEEDLING ALFALFA**

PURSUIT must be applied postemergence to seedling alfalfa. Apply PURSUIT when the seedling alfalfa is in the second (2nd) trifoliate stage or larger and when the majority of the weeds are 1-3 inches (see weed control tables on pages 8-10). For low growing weeds (such as mustards) apply PURSUIT before the rosette exceeds 3 inches. When PURSUIT is applied to seedling alfalfa, there may be a temporary reduction in growth. Alfalfa soon outgrows any effects of the herbicide.

**ESTABLISHED ALFALFA**

PURSUIT can be applied to established alfalfa in the fall, in the spring to dormant or semi dormant alfalfa (less than 3 inches of re-growth), or between cuttings. Any application should be made before significant alfalfa growth or re-growth (3 inches) to allow PURSUIT to reach the target weeds.

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PURSUIT's mode of action involves uptake of PURSUIT by weed roots and/or foliage and rapid translocation to the growing points. Good growing conditions are important for optimum PURSUIT activity. 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 if adequate soil moisture is present.

Following the use of this product and chemically related products with the same mode of action, naturally occurring biotypes\* of some of the weeds listed on this label cannot be effectively controlled by this and related products. This product should be tank mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control of resistant biotypes.

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

**Replanting:** If replanting is necessary in a field previously treated with PURSUIT, do not plant the field to alfalfa for 4 months following the PURSUIT application. Refer to the ROTATIONAL CROP GUIDELINE section on this label for plant-back interval of various crops.

### MIXING INSTRUCTIONS

POSTEMERGENCE APPLICATIONS OF PURSUIT 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 quart per 100 gallons. An organo-silicone surfactant may be used in place of a non-ionic surfactant.

OR

**CROP OIL CONCENTRATE:** Instead of a surfactant, a petroleum or vegetable seed based oil concentrate (such as SUN-IT II<sup>1</sup>) may be used. SUN-IT II is recommended when weeds are under moisture or temperature stress. Use SUN-IT II or other methylated seed oils at the rate of 1.5 to 2 pints per acre (use the higher rate when weeds are at the maximum label size), or use a crop oil concentrate at 2 pints per acre.

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 quarts per 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 per acre.

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

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## TANK MIX COMBINATIONS WITH OTHER HERBICIDES

If other herbicides are tank-mixed with PURSUIT, while agitating, add components in the following order

- 1) Fill spray tank 1/4 to 1/2 full with clean water.
- 2) Add soluble packet products and thoroughly mix.
- 3) Add WP (wettable powder), DG (dispersible granule), DF (dry flowable) or liquid flowable formulations not in soluble packets.
- 4) Add PURSUIT and thoroughly mix.
- 5) Add other aqueous solution products.
- 6) Add EC (emulsifiable concentrate) products.
- 7) Add surfactant or crop oil to the spray tank.
- 8) Add liquid fertilizer.
- 9) While agitating, fill the remainder of the tank with water.

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.

To control weeds not listed on the PURSUIT label, herbicides such as Buctril<sup>2</sup>, 2,4-DB or POAST<sup>2</sup> may be tankmixed with PURSUIT. 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

## 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, cole crops, sugar beets, cotton, trees and vines.

### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. Use higher gallonage (i.e. 20 gallons of water per acre) for fields with dense vegetation or heavy weed pressure. A spray pressure of 20 to 40 psi is recommended.

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

Avoid overlaps when spraying.

Do Not apply PURSUIT to alfalfa by aerial application.

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## APPLICATION INFORMATION

PURSUIT is effective in controlling a broad spectrum of broadleaf and grass weeds. Alfalfa has excellent tolerance to postemergence applications of PURSUIT after the second trifoliate leaf has expanded. Minor height reduction or slight leaf yellowing may occur soon after application. The effects are temporary and the alfalfa will soon recover.

Apply PURSUIT as an early postemergence treatment when the weeds are actively growing. Weeds are generally easier to control before they exceed 3 inches in height. Weeds under stress are less susceptible to control in cold or drought stress conditions.

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If air temperatures reach or stay below 40° for 10 or more hours, delay a PURSUIT 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 in weeds.

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

**STAND ESTABLISHMENT**

Apply PURSUIT after the alfalfa has 2 fully expanded trifoliolate leaves. Weeds must not exceed the size listed in the WEEDS CONTROLLED tables. PURSUIT may be applied to summer, fall or spring seeded alfalfa.

**ESTABLISHED ALFALFA - DORMANT**

PURSUIT may be applied to dormant alfalfa in the fall following the last cutting. PURSUIT may also be applied in the spring to dormant alfalfa, or as alfalfa breaks dormancy. Apply spring treatments prior to excessive alfalfa growth (less than 3 inches), to reduce spray interference.

**ESTABLISHED ALFALFA - GROWING**

For weed control during the season, apply PURSUIT following alfalfa cutting. Remove the hay from the field and apply PURSUIT prior to excessive alfalfa regrowth.

Do not apply to alfalfa during the last year of the stand.

**USE RATE  
(3 TO 6 OUNCES PER ACRE)**

Apply PURSUIT at a broadcast rate of 3 to 6 fluid ounces per acre to seedling or established alfalfa.

NOTE: A maximum of 6 ounces of PURSUIT per year may be applied to alfalfa.

**WEEDS CONTROLLED**

When applied as directed, PURSUIT will control or reduce competition from the weeds listed below. Refer to the ADDITIVES section on page 5 for recommendations when weeds are at the maximum recommended growth stage, or are under stress.

NOTE: C = Control R = Reduced Competition

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**BROADLEAF WEEDS CONTROLLED**

WEEDS 1-3 Inches*	PURSUIT APPLICATION RATE		
	3 Oz/A	4 Oz/A	6 Oz/A
Artichoke, Jerusalem	R	C	C
Beets, wild	C	C	C
Bedstraw, catchweed		C	C
Buckwheat, wild		C	C
Chickweed			
common	R	C	C
mouseear	R	C	C
Cocklebur, common		C	C
Dandelion		R	R
Dock,			
broadleaf (seedling)			R
curly (seedling)			R
Fiddleneck			R
Filaree			
redstem		R	C
whitestem		R	C
Flixweed	R	C	C
Goosefoot, nettleleaf	R	C	C
Grousel, common			R
Henbit		R	C
Jin. onweed		C	C
Knotweed, prostrate		R	C
Kochia	R	C	C
Lambsquarter,			
common (1-2 leaves)		R	R
Lettuce, miners		R	C
Mallow,			
common		C	C
little		C	C
Marshelder		C	C
Morningglory,			
entireleaf			C
ivyleaf			C
pitted			C
smallflower		C	C
tall			C
Mustards			
tumble	C	C	C
wild	C	C	C
black	C	C	C
shepherdspurse	C	C	C
Nettle, burning		C	C

\*Apply PURSUIT to weeds 1-3 inches tall or when rosettes are 1-3 inches wide. This will generally occur when weeds have 2-6 leaves.

BROADLEAF WEEDS CONTROLLED - Continued

WEEDS  
1-3 Inches

PURSUIT APPLICATION RATE  
3 OZ/A      4 OZ/A      6 OZ/A

WEEDS 1-3 Inches	3 OZ/A	4 OZ/A	6 OZ/A
Nightshade			
black	C	C	C
Eastern black	C	C	C
hairy	C	C	C
Oxtongue, bristly			R
Pennycress, field	R	C	C
Pepperweed,			
field	R	C	C
Virginia	R	C	C
Pigweed			
redroot	C	C	C
smooth	R	C	C
spiny		C	C
Radish, wild		R	C
Ragweed			
common		C	C
giant		C	C
Redmaids		C	C
Rocket			
London	C	C	C
yellow	R	C	C
Rockpurslane, desert			C
Shepherdspurse	R	C	C
Smartweed			
ladysthumb	R	C	C
Pennsylvania	R	C	C
Spurge			
prostrate		R	C
spotted		R	C
Spurry, corn		C	C
Sunflower, common	R	C	C
Swinecress		C	C
Tansymustard			
green	C	C	C
pinnate	C	C	C
Thistle, Russian	C	C	C
Velvetleaf	R	C	C
Wartcress, creeping		C	C
Watercress		C	C
Willowweed, panicle		C	C

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GRASSES AND SEDGES CONTROLLED

WEEDS 1-3 Inches	PURSUIT APPLICATION RATE	
	4 OZ/A	6 OZ/A
Barnyardgrass	R	C
Bluegrass, annual		R
Canarygrass, littleseed	R	R
Cereals, volunteer		
barley	R	R
oats	R	R
wheat	R	R
Crabgrass,		
large	R	C
smooth	R	C
Cupgrass, woolly*	C	C
Foxtail,		
giant (1-6 leaves)	C	C
green	C	C
yellow	R	C
Johnsongrass,		
seedling (1-6 leaves)	C	C
rhizome	R	R
Millet, wild proso	R	C
Nutsedge,		
yellow	R	R
purple	R	R
Oats, wild	R	R
Rice, red	C	C
Shattercane (1-6 leaves)	C	C
Signalgrass, broadleaf	R	C
Quackgrass**		R

\*PURSUIT controls emerged woolly cupgrass only.

\*\*Quackgrass will be suppressed only when actively growing and before it exceeds 7 inches in height.

**ROTATIONAL CROP GUIDELINE**

The following rotational crops may be planted after applying PURSUIT at the recommended rate:  
(Planting earlier than the recommended interval may result in crop injury).

1. Anytime
  - Lima beans
  - Southern peas
  - Soybeans
  - Peanuts
  - IMI-Corn™ (resistant/tolerant to PURSUIT)
2. Four months after PURSUIT application:
  - Alfalfa
  - Rye
  - Wheat
  - Edible beans and peas (other than lima beans and Southern peas)
3. Eight and one-half months after PURSUIT application:
  - Field corn
  - Field corn grown for seed\*
4. Nine and one-half months after PURSUIT application:
  - Barley
  - Tobacco
5. Eighteen months after PURSUIT application:
  - Cotton
  - Lettuce
  - Oats
  - Popcorn
  - Safflower
  - Sorghum
  - Sweet corn
6. Twenty six months after PURSUIT application.
  - All crops not listed elsewhere in this ROTATIONAL CROP GUIDELINE.\*\*
7. Forty months after PURSUIT application.
  - Sugar beets
  - Red table beets
  - All crops not listed elsewhere in this ROTATIONAL CROP GUIDELINE.\*\*\*

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\* Several seed companies have tested a wide range of inbreds for sensitivity to PURSUIT 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 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 shall be assumed by the user.

\*\* Applies to states other than the western states.

\*\*\* Applies to western states (including: Washington, Oregon, Montana, Utah, Nevada, Wyoming, Colorado, Arizona, New Mexico, west Texas, western Kansas, western Nebraska, and South Dakota).

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.

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## PRECAUTIONS

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

In the event of a crop loss due to weather, do not plant alfalfa until 4 months following the PURSUIT application

Do not feed, graze or harvest alfalfa for 30 days following an application of PURSUIT to alfalfa.

Do not apply PURSUIT to alfalfa during the last year of the stand.

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

<sup>1</sup>Trademark of Agsco, Inc.

<sup>2</sup>Trademarks of Rhone-Poulenc Ag Company

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