

DEC 3 - 1993

Mrs. Desiree L. Little
American Cyanamid Co.
P.O. Box 400
Princeton, NJ 08543

Dear Mrs. Little:

Subject: Supplemental Labels-Corn Imi Hybrids
PURSUIT® Plus EC Herbicide
EPA Reg. No. 241-331
Your application dated Oct. 20, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cited all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

We note that this labeling does not bear the required worker protection statements as outlined in PR Notices 93-7 and 93-11. We are aware that you have submitted labels in accordance with the instructions in those Notices. The new protective language in those submissions must be melded into this label for any shipments released after the deadlines that have been established. You may opt to do so immediately if you are electing the self-verification option, or after acceptance by the special Agency Worker Protection Standard review group (WSP). Finished printed labels should be submitted after acceptance by the WSP and in accordance with their instructions.

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

Sincerely yours,

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

Enclosure

ACCEPTED
with COMMENTS
in EPA Letter Dated

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EPA Reg. No. 241-331

FOR USE IN FIELD CORN

(APPLY ONLY ON IMI-CORN HYBRIDS)

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the control of
registered pests.

DIRECTIONS FOR THE USE OF PURSUIT PLUS EC FOR WEED CONTROL IN IMI-CORN HYBRIDS

241-331

OBSERVE ALL PRECAUTIONARY STATEMENTS IN THE PURSUIT PLUS EC LEAFLET LABEL BEFORE USING. SEE THE PURSUIT PLUS EC LEAFLET LABEL FOR PRECAUTIONS, WORKER PROTECTION STANDARD REQUIREMENTS, APPLICATION INFORMATION, USES WITH OTHER PRODUCTS AND ROTATIONAL CROP RESTRICTIONS.

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.

The use of PURSUIT PLUS EC herbicide not consistent with this label can result in injury to crops, animals, or persons. Keep container closed to avoid spills and contamination.

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

This label expires December 31, 1994.

DISCLAIMER

THE USER ASSUMES ALL RISKS AND CONSEQUENCES ASSOCIATED WITH APPLICATIONS OF PURSUIT PLUS EC TO IMI-CORN.

GENERAL INFORMATION

Apply PURSUIT PLUS EC only on selected field corn hybrids (IMI-Corn) warranted by the seed company to possess resistance/tolerance to direct application of PURSUIT. DO NOT apply PURSUIT PLUS EC to corn hybrids which lack genetic resistance/tolerance to PURSUIT herbicide. Contact your chemical dealer, seed supplier or American Cyanamid to obtain a list of IMI-Corn hybrids. With the exception of reduced tillage systems (see NO-TILL or REDUCED TILLAGE section) plant into a firm seed bed that is free of clods and crop residue. Use only where adequate tillage is practiced to provide good soil coverage of the corn seed. Plant corn AT LEAST 1-1/2 inches deep to ensure good seed coverage.

PURSUIT PLUS EC herbicide can be applied as a preemergence or postemergence treatment to IMI-Corn hybrids. PURSUIT PLUS EC provides effective weed control in conventional and reduced tillage (conservation tillage, minimum tillage, and no-till) systems. After PURSUIT PLUS EC is applied, some susceptible weeds emerge, growth stops, and the weeds either die or are not competitive with the crop.

Crops growing under stressful environmental conditions can exhibit various injury symptoms which may be more pronounced if herbicides are used. Stunting, leaf curling or temporary yellowing of the field corn plants occasionally may occur following PURSUIT PLUS EC applications. Normal growth and appearance should resume within 1 to 2 weeks.

Within any weed population, there may be the potential for the occurrence of weeds resistant to herbicides when compounds that affect the same site of action are used continuously on the same acre. Therefore, any multiple year weed management program should include, when local agronomic practices allow, as many of the following practices as possible:

- use scouting and weed thresholds to determine the need for herbicide treatment
- utilize tank-mixes or sequential applications of different mode-of-action herbicides to control the same target weeds
- combine cultivation with herbicide treatments

See your Cyanamid representative for additional information.

Replanting: If replanting is necessary in a field previously treated with PURSUIT PLUS EC herbicide, the field may be replanted to soybeans, peanuts, lima beans or southern peas. Re-work the soil no deeper than the treated zone. Do not apply a second treatment of PURSUIT PLUS EC.

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agitation while spraying to ensure a uniform spray mixture.

When tank-mixing PURSUIT PLUS EC with recommended herbicides, add the other herbicides and adjuvants in the following order while agitating:

1. Fill spray tank 1/4 to 1/2 full with clean water.
2. Add PURSUIT PLUS EC.
3. Add other EC (emulsifiable concentrate) products.
4. Add soluble packet products and thoroughly mix.
5. Add W/P (wettable powder), DG (dispersible granule), DF (dry flowable) or LF (liquid flowable) formulations.
6. Add aqueous solution 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 PLUS EC herbicide applications must be drained and thoroughly cleaned with water before being used to apply other products.

USE RATE (2-1/2 PINTS PER ACRE)

Apply PURSUIT PLUS EC at a broadcast rate of 2-1/2 pints per acre for all methods of application: preemergence and postemergence. At this broadcast rate, one gallon of PURSUIT PLUS EC will treat 3.2 acres of IMI-Corn.

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

PURSUIT PLUS EC HERBICIDE USE AREA

DO NOT apply PURSUIT PLUS EC to corn in North Dakota or in Minnesota north of state highway 210.

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, sugar beets, and cotton.

APPLICATION INSTRUCTIONS POSTEMERGENCE

Apply PURSUIT PLUS EC herbicide as a postemergence treatment to IMI-Corn when crop and weeds are actively growing. Apply PURSUIT PLUS EC before weeds exceed a height of 3", unless otherwise indicated. More restrictive crop growth stage limitations of tank-mix partners MUST be followed.

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DO NOT apply PURSUIT PLUS EC with a liquid fertilizer as a carrier.

DO NOT apply PURSUIT PLUS EC when air temperatures are expected to reach or stay below 40° F for 10 or more hours or when extended cold, wet conditions are predicted.

DO NOT tank-mix PURSUIT PLUS EC herbicide with Accent™ or Beacon™.

ADDITIVES:

POSTEMERGENCE APPLICATIONS OF PURSUIT PLUS EC REQUIRE THE ADDITION OF A SURFACTANT AND A LIQUID FERTILIZER.

I. SURFACTANTS

Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart per 100 gallons of spray solution

AND

II. LIQUID FERTILIZER SOLUTION¹

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.

SOIL APPLICATION INSTRUCTIONS

DO NOT INCORPORATE PURSUIT PLUS EC.

PURSUIT PLUS EC provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. PURSUIT PLUS EC herbicide can be applied as a preemergence treatment in IMI-Corn. 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. If weeds have emerged, see instructions under NO-TILL OR REDUCED TILLAGE section.

SURFACE APPLICATIONS MADE AFTER PLANTING:

Apply PURSUIT PLUS EC alone preemergence (surface treatment only) after planting. DO NOT INCORPORATE PURSUIT PLUS EC or serious corn injury may result.

¹PURSUIT PLUS EC applications may be made with a non-ionic surfactant only (liquid fertilizer not required) in the states of Arkansas, North Carolina, Missouri, Tennessee, South Carolina, Louisiana, Mississippi, Alabama, and Georgia.

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NO-TILL OR REDUCED TILLAGE:

PURSUIT PLUS EC is effective in controlling weeds in conservation tillage production systems.

PURSUIT PLUS EC herbicide will control emerged problem weeds such as velvetleaf, smartweeds, common cocklebur, and pigweeds. The weed size should not exceed 3" for velvetleaf and smartweed, and 8" for cocklebur and pigweeds. Add surfactant to the spray mixture at the rate of 1 quart per 100 gallons AND a nitrogen based fertilizer (such as 28%N, 32%N, or 10-34-0) at the rate of 1-2 quarts per acre for optimum activity. Ammonium sulfate (spray grade) may be substituted for liquid fertilizer at the rate of 2.5 lbs. per acre.

NOTE: Plant corn at least 1-1/2 inches deep. Adjust planters to ensure adequate seed coverage.

The use of no-till planters in minimum tillage corn under conditions which do not allow good soil coverage of the corn seed can result in reduced crop stand or injury if PURSUIT PLUS EC contacts the germinating corn seed. Check equipment to ensure good seed coverage.

AERIAL APPLICATIONS

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 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 PLUS EC 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.

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SEQUENTIAL HERBICIDE COMBINATIONS WITH PURSUIT PLUS EC

PURSUIT PLUS EC FOLLOWING EARLY PRE-PLANT APPLICATION OF:

Bicep™, Bicep Lite™	Frontier™
Bronco™	Gramoxone Extra™
Bullet™	Lasso EC™, Lasso MT™
Dual™	Roundup™
Extrazine II™	

PURSUIT PLUS EC FOLLOWING PREPLANT INCORPORATED APPLICATION OF:

Atrazine ¹	Extrazine II
Bicep, Bicep Lite	Frontier
Bullet	Lariat™
Dual	Lasso EC, Lasso MT
Eradicane Extra™	Sutan+™

PURSUIT PLUS EC FOLLOWING PREEMERGENCE APPLICATION OF:

Atrazine	Extrazine II
Banvel™, 2	Frontier
Bicep, Bicep Lite	Lariat
Bullet	Lasso EC, Lasso MT
Clarity™, 1	Marksman™, 2
Dual	PROWL® 3.3EC
Eradicane Extra	Sutan+

TANK-MIX HERBICIDE COMBINATIONS WITH PURSUIT PLUS EC

PREEMERGENCE APPLICATION OF PURSUIT PLUS EC TANK-MIXED WITH:

Atrazine	Extrazine II
Banvel	Frontier
Bicep, Bicep Lite	Lariat
Bullet	Lasso EC, Lasso MT
Clarity	Marksman
Dual	PROWL 3.3EC
Eradicane Extra	Sutan+

POSTEMERGENCE APPLICATION OF PURSUIT PLUS EC TANK MIXED WITH:

Atrazine ¹	Clarity
Banvel ¹	Marksman
Buctril™, 1, 2	PROWL 3.3EC
Basagran™, 2	Sencor DF™, Sencor 4L™

¹In some cases the grass activity of PURSUIT PLUS EC will be reduced when used in combination with atrazine, Buctril, Banvel, Basagran, Clarity, or Marksman postemergence.

²Some corn leaf burn may result with Buctril or atrazine postemergence combinations with PURSUIT PLUS EC.

⁴Applications of Banvel or Clarity herbicide to corn during periods of rapid growth may result in temporary leaning.

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When PURSUIT PLUS EC herbicide 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.

WEEDS CONTROLLED

When applied as directed, PURSUIT PLUS EC will control or reduce competition from the weeds listed below.

NOTE: C = Control, R = Reduced Competition

BROADLEAF WEEDS

Weeds Controlled	PREEMER- GENCE	Leaf Stage	POSTEMERGENCE MAX. SIZE (Inches)
Alligator weed		4	1 - 3
Anoda, spurred	C	2	1 - 2
Artichoke, Jerusalem		8	6 - 10
Buffalobur	C*	R	1 - 3
Carpetweed	C		
Cocklebur, common	R	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 species	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		
Ragweed,			
common	R	4	1 - 3
giant	R	4	1 - 3
Sage, barnyard	R	R	1 - 3
Sida, prickly (teaweed)	C*		
Smartweed,			
ladysthumb	C	4	1 - 3
Pennsylvania	C	4	1 - 3

BROADLEAF WEEDS

Weeds Controlled	PREEMER- GENCE	Leaf Stage	POSTEMERGENCE MAX. SIZE (Inches)
Spurge,			
prostrate	C	4	1 - 3
spotted	C	4	1 - 3
Sunflower	C*	4	1 - 3
Thistle, Canada		R	1 - 3
Velvetleaf	C*	4	1 - 3
Waterhemp, tall	C	4	1 - 3

* Cultivation and/or a postemergence herbicide may be required for season-long control.

The number under Maximum Leaf Stage indicates the MAXIMUM number of leaves at which weeds should be sprayed postemergence. DO NOT count cotyledon leaves when determining weed stage of growth.

GRASS WEEDS

Weeds Controlled	PREEMER- GENCE	Leaf Stage	POSTEMERGENCE MAX. SIZE (Inches)
Barnyardgrass	R	3	1 - 3
Crabgrass,			
large	C	3	1 - 3
smooth	C	3	1 - 3
Crowfootgrass	C		
Cupgrass, woolly	C	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	
Panicum,			
browntop	C		
fall	C		
Texas	C		
Red rice		3	1 - 3
Sandbur, field	C		
Shattercane	R	6	1 - 8
Signalgrass, broadleaf	R	4	1 - 8
Sorghum alnum	R		
Witchgrass	C	6	1 - 3
	SEDCFS		
Nutsedge,			
yellow	R	R	1 - 3
purple	R	R	1 - 3

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ROTATIONAL CROPS

The following rotational crops may be planted after applying PURSUIT PLUS EC herbicide at the recommended rate in field corn:

1. Anytime

Lima beans	Peanuts
Southern peas	Soybeans
2. Four months after PURSUIT PLUS EC application:
 - Wheat
 - Edible beans and peas (other than lima beans and Southern peas)
4. Nine and one-half months after PURSUIT PLUS EC application:

Barley	Rye
Field corn	Tobacco
Field corn grown for seed*	
5. Eighteen months after PURSUIT PLUS EC application:

Alfalfa	Popcorn
Cotton	Safflower
Lettuce	Sorghum
Oats	Sweet corn
6. Twenty six months after PURSUIT PLUS EC application:
 - All crops not listed elsewhere in this ROTATIONAL CROP GUIDELINE.
7. Forty months after PURSUIT PLUS EC application:
 - Sugar beets

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

Use of PURSUIT PLUS EC 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.

PRECAUTIONS

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

There should be an interval of at least 45 days between an application of PURSUIT PLUS EC herbicide and corn harvest (silage, fodder, or grain).

DO NOT graze or feed treated corn, forage, silage, fodder, or grain to livestock for at least 45 days after an application of PURSUIT PLUS EC.

If field corn is 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.

All soil insecticides, including labelled banded or in-furrow applications, may be used in combination with Pioneer imidazolinone resistant (IR) corn hybrids.

Imidazolinone tolerant hybrids from other seed companies may occasionally exhibit injury symptoms when soil insecticides are used in combination with PURSUIT PLUS EC. USE banded applications of COUNTER® 15G, COUNTER® 20CR® or THIMET® in combination with PURSUIT PLUS EC application; DO NOT USE COUNTER 15G soil insecticide products in-furrow with imidazolinone tolerant hybrids. American Cyanamid has not tested all hybrids in which the imidazolinone tolerance trait is claimed and cannot be responsible for factors which are beyond its control, such as growing conditions, environmental conditions, grower practices and the specific genetics of each hybrid which may influence tolerance. Growers should contact the seed company for information regarding specific hybrid tolerance to herbicide and insecticide applications.

For additional information regarding the use of PURSUIT PLUS EC herbicide, call telephone no. (800) 942-0500.

PE-17189 Rev. 1 8/3/93 SD

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- **Roundup, Bronco, Bullet, Lariat, Lasso EC, and Lasso MT are Trademarks of Monsanto Agricultural Products.
- **Accent and Extrazine II are Trademarks of E.I. DuPont de Nemours and Company, Inc.
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