

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

EPA REGISTRATION NO.

DATE OF ISSUANCE

241-353

EFF 15 1994

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

PURSUIT Atrazine SC  
Herbicide

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

American Cyanamid Company  
Agricultural Research Division  
P.O. Box 400  
Princeton, NJ 08543-0400

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 endorsement 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4."
2. Add the phrase, "EPA Registration No. 241-353" and submit five (5) copies of your final printed labeling before you release the product for shipment.

PRODUCT CHEMISTRY

3. The submission for the registration of this product is acceptable.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

*K. R. S.*

DATE

2-17-94

EPA Form 8570-6 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

*Mals  
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PRECAUTIONARY REVIEW

4. A new inhalation test conducted with a more diluted test material is recommended. The sensitization study may be upgraded if a properly conducted positive control test is submitted.

LABELING

5. a. No precautionary statements are necessary in the areas of oral toxicity and eye and dermal irritation due to category IV placement of these tests. However, you may retain category III if so desired.
- b. The precautionary statement should read:  
Harmful if absorbed through skin. Avoid contact with skin and clothing. Wash thoroughly after handling. Remove contaminated clothes and wash before reuse.
- c. The restricted use statement must conform to the requirements of PR Notice 93-1.
- d. This product is subject to the labeling requirements of the Worker Protection Standard.
- e. The goggle or face shield requirement for mixers and loaders is not supported by the data. Please delete this requirement.
- f. Upon the presentation of the outstanding data, the label may need to be revised.
- g. The last word under the environmental hazards should read "washwaters".

**RESTRICTED USE HERBICIDE  
DUE TO GROUND AND SURFACE WATER CONCERNS**

**USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.**

**FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USERS COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.**

**PURSUIT®/Atrazine SC  
herbicide**

**FOR USE IN FIELD CORN  
(Apply Only On PURSUIT Resistant/Tolerant Field Corn Hybrids)**

**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* .....	4.36%
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine .....	32.54%
INERT INGREDIENTS .....	63.10%
TOTAL .....	100.00%

\*Equivalent to 4.12% (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

PURSUIT/Atrazine SC contains 3.38 pounds of active ingredient per gallon (3.0 pounds ai of atrazine and 0.38 pounds acid equivalent of imazethapyr)

EPA Reg. No. 241-GLG

EPA Est. No.

**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).

®Registered Trademark of American Cyanamid Company

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## STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

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

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

**NOTE TO PHYSICIAN:** There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

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

See Below for Additional Precautionary Statements

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

Net Contents: 1 gallon  
(3.78 liters)

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION!

Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**Personal Protective Equipment (PPE):**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

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**Applicators and other handlers (other than mixers and loaders) must wear:**

- long-sleeved shirt and long pants
- chemical-resistant gloves, such as barrier laminate or butyl rubber  $\geq 14$  mils or nitrile rubber  $\geq 14$  mils or neoprene rubber  $\geq 14$  mils or polyvinyl chloride (PVC)  $\geq 14$  mils or viton  $\geq 14$  mils
- chemical-resistant footwear plus socks

**Mixers and Loaders must wear:**

- long-sleeved shirt and long pants
- chemical-resistant gloves, such as barrier laminate or butyl rubber  $\geq 14$  mils or nitrile rubber  $\geq 14$  mils or neoprene rubber  $\geq 14$  mils or polyvinyl chloride (PVC)  $\geq 14$  mils or viton  $\geq 14$  mils
- chemical resistant footwear plus socks
- protective eyewear

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.

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**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.
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## ENVIRONMENTAL HAZARDS

This product contains atrazine. Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where surface water runoff enters perennial or intermittent impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, seeded with grass or other suitable crop.

Atrazine is toxic to aquatic invertebrates. 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 apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wastewater.

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

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### 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.

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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
- chemical resistant gloves, such as barrier laminate or butyl rubber  $\geq$  14 mils or nitrile rubber  $\geq$  14 mils  
or neoprene rubber  $\geq$  14 mils or polyvinyl chloride (PVC)  $\geq$  14 mils or viton  $\geq$  14 mils
- chemical resistant footwear plus socks

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### 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.

**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/Atrazine SC.** 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**.

**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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Apply PURSUIT/Atrazine SC only on selected field corn hybrids warranted by the seed company to possess resistance/tolerance to direct applications of PURSUIT. Contact your seed supplier, chemical dealer or American Cyanamid to obtain information regarding PURSUIT resistant/tolerant field corn hybrids.

PURSUIT/Atrazine SC can be applied as an early preplant, preplant incorporated, preemergence, postemergence or directed-postemergence treatment on field corn hybrids which are classified as PURSUIT resistant/tolerant. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator.

PURSUIT/Atrazine SC kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum PURSUIT/Atrazine SC activity. When adequate soil moisture is present, PURSUIT/Atrazine SC 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/Atrazine SC herbicide in accordance with label directions is expected to result in normal growth of rotational crops; 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 (see Rotational Crops Section for specific instructions).

Crops growing under stressful environmental conditions can exhibit various injury symptoms which may be more pronounced if herbicides are used. Corn plants treated with PURSUIT/Atrazine SC may exhibit yellowing on new growth. Such effects occur infrequently and are temporary. 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 are 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/Atrazine SC, the field may be replanted to PURSUIT resistant/tolerant field corn. Rework the soil no deeper than the treated zone. DO NOT apply a second treatment of PURSUIT/Atrazine SC.

## 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/Atrazine SC. Add PURSUIT/Atrazine SC to the spray tank while agitating. Fill the remainder of the tank with water.

For all postemergence applications, add a nonionic surfactant or a crop oil concentrate and a liquid fertilizer solution (10-34-0, 28 or 32% nitrogen) as the last ingredients in the tank. Spray grade ammonium sulfate may be used in place of a liquid fertilizer. The addition of fertilizer to the spray solution is required for optimum

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weed control except in certain states (see Additives section of this label). Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.



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When tank-mixing PURSUIT/Atrazine SC with recommended herbicides, add the other herbicide to the spray tank first and make sure it is thoroughly mixed before adding PURSUIT/Atrazine SC. When tank-mixing atrazine, PROWL<sup>®</sup>, Bronco<sup>1</sup>, Roundup<sup>1</sup>, Lasso<sup>1</sup>, Gramoxone Extra<sup>2</sup>, Eradicane<sup>2</sup>, Sutan+<sup>2</sup>, Dual<sup>3</sup>, Buctril<sup>4</sup> or Banvel<sup>5</sup> with PURSUIT/Atrazine SC herbicide, add the herbicides in the following order: (1) atrazine (2) Buctril, Banvel, PROWL, Eradicane, Sutan+, Lasso, or Dual, (3) Bronco, Roundup, Gramoxone Extra, (4) PURSUIT/Atrazine SC, (5) nonionic surfactant, and (6) liquid/spray grade fertilizer.

To avoid injury to sensitive crops, spray equipment used for PURSUIT/Atrazine SC applications must be drained and thoroughly cleaned with water before being used to apply other products. See the "Environmental Hazards" section of this label for precautions concerning products containing atrazine.

### 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/Atrazine SC to minimum or no-till corn. Use higher gallonage for fields with dense vegetation or heavy crop residues.

Avoid overlaps when spraying.

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, sugarbeets, red/table beets and cotton.

DO NOT apply by aerial application.

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

### USE RATE (1-1/3 PINTS PER ACRE)

Apply PURSUIT/Atrazine SC at a broadcast rate of 1-1/3 pints per acre for all methods of application: early preplant, preplant incorporated, preemergence (including minimum and no-till), postemergence and directed-postemergence. At this broadcast rate, one gallon of PURSUIT/Atrazine SC will treat 6 acres of PURSUIT resistant/tolerant field corn. This is equivalent to 0.063 lbs imazethapyr and 0.5 lbs atrazine active ingredient per acre.

**NOTE:** Only one application of PURSUIT/Atrazine SC may be made during the growing season.

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

See Herbicide Combination - Postemergence section for application with additional atrazine.

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

<sup>2</sup> Gramoxone Extra, Sutan+, and Eradicane are Trademarks of ICI Americas Inc.

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

<sup>4</sup> Buctril is a Trademark of Rhone-Poulenc Ag Company.

<sup>5</sup> Banvel is a Trademark of Sandoz Crop Protection Corporation.

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

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**APPLICATION INSTRUCTIONS  
POSTEMERGENCE**

PURSUIT/Atrazine SC is effective in controlling weeds in conservation tillage as well as in conventional production systems. Apply PURSUIT/Atrazine SC herbicide as a postemergence treatment to PURSUIT resistant/tolerant field corn when crop and weeds are actively growing. Apply PURSUIT/Atrazine SC before weeds exceed a height of 3 inches, unless otherwise indicated and before corn reaches 12 inches in height. Delay application until the majority of the weeds are at the recommended growth stage. More restrictive crop growth stage limitations of tank-mix partners must be followed.

**ADDITIVES:**

POSTEMERGENCE APPLICATIONS OF PURSUIT/Atrazine SC REQUIRE THE ADDITION OF AN ADJUVANT AND A LIQUID FERTILIZER<sup>6</sup> SOLUTION.

**I. ADJUVANTS**

**SURFACTANTS:** Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 qt./100 gal of spray solution.

OR

**CROP OIL CONCENTRATE:** Instead of a surfactant, a petroleum or vegetable seed oil based crop oil concentrate (such as SUN-IT II<sup>7</sup>) may be used. SUN-IT II is recommended when weeds are under moisture or temperature stress. Use SUN-IT II/other crop oil concentrates at the rate of 1.5 to 2 pt/A (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 qt/A. 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 lb/A.

If air temperatures reach or stay below 40°F for 10 or more hours, delay a PURSUIT/Atrazine SC application for 48 hours from the time temperatures increase above 40°F. Unusually cool temperatures (40°F or less) reduces photosynthesis and transpiration and thus reduce the uptake and translocation (and effectiveness) of PURSUIT/Atrazine SC in weeds.

DO NOT tank-mix PURSUIT/Atrazine SC with Accent<sup>8</sup> or Beacon<sup>9</sup> or apply separate applications of these herbicides before or after PURSUIT/Atrazine SC treatments.

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

<sup>6</sup> PURSUIT/Atrazine SC applications may be made with a nonionic surfactant only (liquid fertilizer not required) in the states of Arkansas, Bootheel of Missouri, Tennessee, South Carolina, Louisiana, Mississippi, Alabama, and Georgia.

<sup>7</sup> SUN-IT II is a Trademark of Agsco, Inc.

<sup>8</sup> Accent is a Trademark of E. I. DuPont de Nemours and Company, Inc.

<sup>9</sup> Beacon is a Trademark of Ciba Geigy Corporation.

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## HERBICIDE COMBINATIONS - POSTEMERGENCE

PURSUIT/Atrazine SC can be applied postemergence following soil applications of PROWL (preemergence only), Dual, Lasso, atrazine, Sutan<sup>+</sup>, or Eradicane.

Products that can be tank-mixed postemergence with PURSUIT/Atrazine SC include PROWL, Buctril and Banvel. Postemergence applications of PURSUIT/Atrazine SC with PROWL or Banvel can be made to corn up to the five-leaf stage. See the atrazine label for precautions and rate restrictions. PURSUIT/Atrazine SC can be tank-mixed with Buctril for application to corn between the three-leaf and eight-leaf stages. Some corn leaf burn may result with Buctril and atrazine postemergence combinations. Applications of Banvel herbicide to corn during periods of rapid growth may result in temporary leaning. DO NOT use crop oil concentrates as adjuvants in PURSUIT/Atrazine SC combinations with Banvel or Buctril. In some cases, the grass activity of PURSUIT/Atrazine SC will be reduced when used in combination with Buctril or Banvel.

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

**PURSUIT/Atrazine SC WITH ADDITIONAL ATRAZINE AS A TANK-MIX OR SEQUENTIAL TREATMENT.** PURSUIT/Atrazine SC is active on many broadleaf and grass weeds. However, under conditions of heavy or difficult to control weed pressure, PURSUIT/Atrazine SC may be tank-mixed or applied sequentially with additional atrazine. A total of 1.5 lbs active ingredient atrazine per acre or less (as local regulations require) may be added. Grass activity of PURSUIT/Atrazine SC may be reduced when used in combination with Buctril or Banvel.

## SOIL APPLICATIONS

PURSUIT/Atrazine SC can be applied as an early preplant, preplant incorporated, or preemergence treatment in PURSUIT resistant/tolerant field corn. PURSUIT/Atrazine SC provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. 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.

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

## SOIL APPLICATIONS WITH LIQUID FERTILIZERS

PURSUIT/Atrazine SC can be applied to the soil in liquid fertilizers, alone or in combination with PROWL herbicide (preemergence only, DO NOT incorporate PROWL), Eradicane, Sutan<sup>+</sup>, Lasso or Dual. Follow all PURSUIT/Atrazine SC 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/Atrazine SC with the liquid fertilizer before mixing in the spray tank.

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## PREPLANT INCORPORATED APPLICATIONS

PURSUIT/Atrazine SC 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 to 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-ROTERRA<sup>9</sup> set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT/Atrazine SC to a depth of 1 to 3 inches.
- (f) Do-All set and operated according to the manufacturer's directions to incorporate PURSUIT/Atrazine SC 1 to 3 inches deep and operated at 4 to 6 mph.

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

## PREEMERGENCE (SURFACE APPLICATIONS)

PURSUIT/Atrazine SC 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.

Adequate soil moisture is required for optimum activity. For surface applications, rainfall or overhead irrigation is necessary to move PURSUIT/Atrazine SC 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/Atrazine SC 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.

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<sup>9</sup>LELY-ROTERRA is a Trademark of Lely.

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**CONVENTIONAL TILLAGE:**

Apply PURSUIT/Atrazine SC treatments up to 45 days before planting, during planting, or after planting. If moisture is insufficient, a thorough shallow tillage (preferably with a rotary hoe) or cultivation is recommended to improve weed control.

**NO-TILL OR REDUCED TILLAGE:**

Apply PURSUIT/Atrazine SC treatments up to 45 days before planting, during planting, or after planting. 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/Atrazine SC with PROWL (DO NOT incorporate PROWL), Lasso or Dual. To kill existing vegetation, Bronco, Gramoxone Extra or Roundup may be tank-mixed with PURSUIT/Atrazine SC alone or in combination with PROWL, Lasso or Dual. Refer to the respective labels for use rates and precautions.

**NOTE:** Adjust planters to ensure adequate seed coverage.

**WEEDS CONTROLLED**

When applied as directed at the broadcast rate of 1-1/3 pints per acre, PURSUIT/Atrazine SC will control or reduce competition from the weeds listed below.

**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 (inches)	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size
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
Eclipta	C	2	1-4
Galinsoga	C		
Jimsonweed	C*	4	1-3
Kochia	C	4	1-3
Lambsquarters	C	2	1-2
Mallow, Venice	C	2	1-3
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	2	1-3
Pusley, Florida	C		
Sida, prickly	C*	2	1-3
Ragweed,			
common	C	4	1-3
giant	C	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

**BROADLEAF WEEDS (continued)**

Weeds Controlled (inches)	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size
Sunflower, common	C*	4	1-3
Velvetleaf	C	4	1-3
Thistle, Canada		R	1-3
Thistle, Russian	C	2	1-3
Waterhemp, tall	C	4	1-3

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

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

**GRASS WEEDS\***

Weeds Controlled (inches)	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size
Barnyardgrass	R	3	1-3
Crabgrass, large	R	3	1-3
smooth	R	3	1-3
Cupgrass, woolly	R	3	1-3
Foxtail, giant	C	6	1-6
green	C	3	1-3
yellow	C	3	1-3
Goosegrass	R		
Johnsongrass, seedling	R	6	1-8
rhizome		R	1-8
Millet, wild proso	R	R	1-3
Panicum, fall	C	3	1-3
Texas	R		
Red rice		3	1-3
Shattercane	C	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 than from preemergence treatments.

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PURSUIT/Atrazine SC is active against many broadleaf and grass species. However, when heavy grass pressure is anticipated, PURSUIT/Atrazine SC should be used in combination with a soil-applied grass herbicide (see HERBICIDE COMBINATIONS section).

### HERBICIDE COMBINATIONS - SOIL APPLICATIONS

PURSUIT/Atrazine SC is active against many grass species. However, when heavy grass pressure is anticipated, PURSUIT/Atrazine SC should be used in combination with one of the following registered soil-applied grass herbicides; PROWL (preemergence or early postemergence only, DO NOT incorporate PROWL), Lasso or Dual (preemergence or preplant incorporated), Eradicane or Sutan+ (preplant incorporated only).

The application of a soil applied grass herbicide underlay (such as Lasso, Dual, Sutan+, or Eradicane) or PROWL applied preemergence or early postemergence will control grass weeds not on the PURSUIT/Atrazine SC label.

Refer to the PROWL (or other grass herbicide) label for specific use recommendations, rates and precautions.

### WEEDS CONTROLLED BY PREPLANT AND PREEMERGENCE COMBINATION SOIL TREATMENTS

When applied as directed, PURSUIT/Atrazine SC combination soil treatments with PROWL (Preemergence only, DO NOT incorporate PROWL), Lasso, Dual, Eradicane, or Sutan+ will control the weeds listed in the following table, in addition to those controlled by PURSUIT/Atrazine SC alone.

	PROWL <sup>a</sup>	Eradicane <sup>b</sup>	Sutan+ <sup>b</sup>	Lasso <sup>c</sup>	Dual <sup>c</sup>
<b>GRASSES</b>					
Barnyardgrass	X	X	X	X	X
Crabgrass, large	X	X	X	X	X
Crabgrass, smooth	X	X	X	X	X
Crowfootgrass	X	X	X		
Goosegrass	X	X	X	X	X
Itchgrass		X	X		
Panicum, fall	X	X	X	X	X
Panicum, Texas	X	X	X		
Rhizome johnsongrass		X	X		
Sandbur, field	X	X	X		
Shattercane	X	X	X		
Signalgrass, broadleaf	X	X	X	X	X
Wild proso millet	X	X	X		
Witchgrass	X	X	X	X	X
Woolly Cupgrass	X	X			

<sup>a</sup> Preemergence treatments only. DO NOT apply PROWL preplant incorporated. PROWL does not control emerged grasses.

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

<sup>c</sup> Preplant incorporated or preemergence treatments.

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## ROTATIONAL CROPS

The following rotational crops may be planted after applying PURSUIT/Atrazine SC at the recommended rate in corn:

1. Anytime  
Resistant/tolerant field corn
  
2. Nine and one-half months after PURSUIT/Atrazine SC application:
  - Barley
  - Edible beans and peas (including lima beans and Southern peas)
  - Field corn
  - Field corn grown for seed\*
  - Soybeans
  - Peanuts
  - Rye
  - Tobacco
  - Wheat
  
3. Eighteen months after PURSUIT/Atrazine SC application:

Alfalfa	Popcorn
Cotton	Safflower
Lettuce	Sorghum
Oats	Sweet corn
  
4. Twenty six months after PURSUIT/Atrazine SC application:

All crops not listed elsewhere in this ROTATIONAL CROPS GUIDELINE.
  
5. Forty months after PURSUIT/Atrazine SC application:

Sugarbeets

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

Use of PURSUIT/Atrazine SC 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

If 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.

In the event of a crop loss due to weather, PURSUIT resistant/tolerant field corn hybrids can be replanted. If PURSUIT/Atrazine SC is tank-mixed with other herbicides, the most restrictive precautions must be followed.

There should be an interval of at least 45 days between an application of PURSUIT/Atrazine SC and corn harvest (silage, fodder, or grain). DO NOT graze or feed treated corn forage, silage, fodder, or grain for at least 45 days after an application of PURSUIT/Atrazine SC.

DO NOT apply products containing nicosulfuron (Accent), primisulfuron (Beacon) or products containing imazethapyr (PURSUIT/Atrazine SC, PURSUIT, PURSUIT PLUS, PASSPORT) to field corn the same year as PURSUIT/Atrazine SC or injury to follow crops may occur.

All soil insecticides may be used with PURSUIT/Atrazine SC applications on Pioneer IR hybrids.

Other imidazolinone tolerant corn hybrids may occasionally exhibit injury symptoms when soil insecticides are used in combination with PURSUIT/Atrazine SC. Use banded applications of COUNTER® 20CR® or THIMET® in combination with PURSUIT/Atrazine SC application; DO NOT USE COUNTER soil insecticide products in-furrow with imidazolinone tolerant hybrids. American Cyanamid has not tested all hybrids in which the 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.

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

American Cyanamid Company  
Agricultural Division  
Crop Protection Chemicals Department  
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