

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

EPA REGISTRATION NO.
241-328

DATE OF ISSUANCE
APR 13 1990

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Purport / Dye / Marking

NOTICE OF PESTICIDE: REGISTRATION
REREГИSTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

✓
Purport / Dye / Marking
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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 indorsement 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)(5)(D) provided that you:

1. Submit and/or edit 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.
2. Include phrase, "EPA Registration No." 241-328" to your label before you release the product for shipment.
3. Place note 12 month storage and stability test and results required by the Agency within 12 months after this registration notice.
4. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the Agency may suspend or cancel the conditional registration in accordance with FIFRA sec. 3(d). Any change for shipment of the product constitutes a new registration application.

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

Sincerely yours,

BEST AVAILABLE COPY

Joanne T. Miller
Acting Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (375050)

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne T. Miller

DATE

4/13/90

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PURSUIT®/Dual
herbicide

FOR USE IN SOYBEANS

ACTIVE INGREDIENTS:

imazethapyr (±)-2-[4,5-dihydro-4-methyl-4-(1-methyl-ethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid* 2.74%

metolachlor 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide68.50%

INERT INGREDIENTS 28.76%

TOTAL 100.00%

PURSUIT/Dual contains 6.55 pounds of active ingredients per gallon (6.3 pounds ai of metolachlor and 0.25 pounds acid equivalent of imazethapyr).

EPA Reg. No. 241-

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO!

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Get medical attention.

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

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 DIVISION
CROP PROTECTION CHEMICALS DEPARTMENT
WAYNE, NJ 07470 ©1989

Net Contents: 2.5 gallons
(9.45 liters)

• Registered Trademark of American Cyanamid Company

8/2/89 ACCEPTED
EPA COMPLIANT
EPA Reg. No.

APR 13 1990

Under the EPA
Reg. No.

241-328

102.3011

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
WARNING

Causes substantial but temporary eye injury. Wear goggles or a face shield. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources.

DIRECTIONS FOR USE

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

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

Observe all cautions and limitations in this leaflet. The use of PURSUIT/Dual 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.

STORAGE AND DISPOSAL

STORAGE: 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, or 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 field use and tests. 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 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.

Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or values, etc.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY. USER assumes the risk of any use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company

GENERAL INFORMATION

PURSUIT/Dual may be applied in no-till, minimum tillage, or conventional tillage soybean production. Apply PURSUIT/Dual either preplant surface-applied (in no-till or minimum tillage), preplant incorporated, or preemergence. Apply PURSUIT/Dual up to two weeks prior to planting soybeans. Refer to specific directions under the APPLICATION DIRECTIONS section.

After PURSUIT/Dual is applied, some susceptible weeds emerge, growth stops, and the weeds either die or are not competitive with the crop. Adequate soil moisture is important for optimum PURSUIT/Dual activity. When adequate soil moisture is present, PURSUIT/Dual will provide residual control of susceptible germinating weeds.

Some dwarfing of soybean plants may occur with PURSUIT/Dual applications. This is the result of shortened plant internodes and has no effect on soybean yields.

Replanting: If replanting is necessary in a field previously treated with PURSUIT/Dual, the field may be replanted to soybeans. Rework the soil to a shallow depth (2-3 inches) to maintain the herbicide near the soil surface. Do not apply a second treatment of PURSUIT/Dual.

MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. While agitating add the required amount of product and then fill the remainder of the tank with water. Maintain agitation while spraying to ensure a uniform spray mixture.

When PURSUIT/Dual is tank mixed with Gramoxone Super¹ or Roundup², add PURSUIT/Dual to the tank first, then add Gramoxone Super or Roundup. When Gramoxone Super is included in a tank mixture, add 8 ounces of non-ionic surfactant per 100 gallons of spray mixture as the last ingredient in the tank.

¹Gramoxone Super is a trademark of ICI Americas, Inc.
²Roundup is a trademark of Monsanto Agricultural Products Company.

DA 6011

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SPRAYING INSTRUCTIONS

GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 to 40 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/Dual if there is vegetation present. 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.

APPLICATIONS WITH LIQUID FERTILIZER:

PURSUIT/Dual can be applied to the soil in liquid fertilizers. Follow all PURSUIT/Dual label recommendations for types of applications, timing of applications, special instructions and precautions. Apply treatments in 20 or more gallons of liquid fertilizer per acre with ground equipment.

AERIAL APPLICATIONS:

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre.

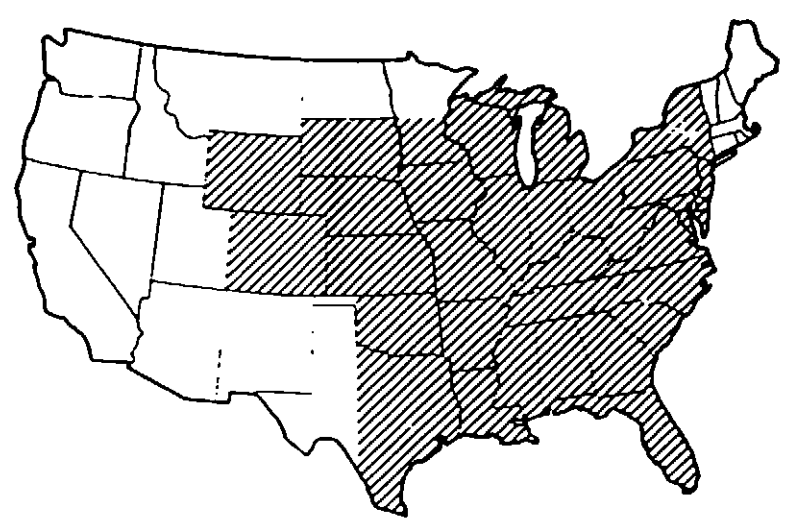
To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS:

- Use nozzles which produce a coarse spray.
- 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.

Applicator is responsible for any loss or damage which results from spraying PURSUIT/Dual in manner other than recommended on this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

PURSUIT/DUAL HERBICIDE USE AREA

PURSUIT/Dual may be applied to soybeans only in the states or parts of states shaded in the map below:



USE RATE
(1 QUART PER ACRE)

Apply PURSUIT/Dual at a broadcast rate of 1 quart per acre for all methods of application: preplant surface (including minimum and no-till), preplant incorporated or premergence. At this broadcast rate, one gallon of PURSUIT/Dual will treat 4 acres of soybeans.

NOTE: If PURSUIT/Dual is applied 15 to 30 days prior to planting, or applied to soils with greater than 4% organic matter, add 0.5 pint Dual 8E to the spray mixture.

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

WEEDS CONTROLLED

The following grass and broadleaf weeds are controlled by recommended treatments of PURSUIT/Dual:

GRASSES

- | | |
|---------------|------------------------|
| Barnyardgrass | Goosegrass |
| Crabgrass | Johnsongrass, seedling |
| large | Millet, foxtail |
| smooth | Nutsedge, yellow |
| | Panicum |
| Crowfootgrass | fall |
| Foxtail | Signalgrass, broadleaf |
| giant | Witchgrass |
| green | |
| giant green | |
| robust purple | |
| robust white | |
| yellow | |

BROADLEAF WEEDS

- | | |
|-----------------------|---------------------------|
| Carpetweed | Puncturevine |
| Cocklebur, common* | Purslane, common |
| Galinsoga | Pusley, Florida |
| Jimsonweed** | Shepherdspurse |
| Kochia | Sida, prickly** (Teaweed) |
| Lambsquarter common** | Smartweed |
| Morningglory** | ladysthumb |
| smallflower | Pennsylvania |
| Mustard species | Spurge |
| Nightshade | prostrate |
| black | spotted |
| Eastern black | Sunflower, common** |
| hairy | Velvetleaf** |
| Pigweed | Waterhemp, tall |
| palmer | |
| redroot | |
| smooth | |
| spiny | |

PURSUIT/Dual will aid in the control and reduce competition from:

- | | |
|-------------------------|--------------------|
| Beggarweed, Florida | Ragweed |
| Itchgrass** | common |
| Johnsongrass, rhizome** | giant** |
| Millet, wild proso** | Shattercane** |
| Morningglory** | Sorghum, volunteer |
| entireleaf | |
| ivyleaf | |
| pitted | |
| tall | |

* Preplant incorporated treatments only for best results and for light to moderate infestations.

** Preplant incorporated treatments for best results.

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APPLICATION INSTRUCTIONS

PURSUIT/Dual may be soil applied prior to planting (up to 14 days), at planting or following planting, but before crop or weed emergence. It provides effective weed control in conventional, reduced, or no-till soybean production.

NOTE: See instructions under USE RATE for applications made 15 to 30 days prior to planting and application to soils containing greater than 4% organic matter.

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

PREPLANT SURFACE-APPLIED

Apply PURSUIT/Dual up to two weeks prior to planting soybeans in minimum tillage or no-tillage systems. If weeds are present at the time of spraying, apply in a tank mixture with a contact herbicide (such as Gramoxone Super or Roundup). Observe directions for use, precautions, and restrictions on the contact herbicide label. To the extent possible, avoid moving treated soil out of the seed row when planting the crop.

PREEMERGENCE APPLICATIONS

Apply PURSUIT/DUAL during planting (behind the planter), or after planting but before crop emergence.

PREPLANT INCORPORATED APPLICATIONS

PURSUIT/Dual 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 14 days prior to planting. Incorporate prior to soybean planting and within 7 days of application. Mechanical incorporation can be achieved by 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. Use only on coarse textured soils.
- (d) Field cultivator with 3 to 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 made at an angle to the first.
- (e) LELY-Roterra³ set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT/Dual to a depth of 1 to 2 inches.
- (f) Do-All set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT/Dual to a depth of 1 to 2 inches.

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

³LELY-Roterra is a trademark of Lely.

ROTATIONAL CROP RESTRICTIONS

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

- 1. Four and one-half months after application:
 - Barley
 - Wheat

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

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

If soybeans are furrow irrigated, till the soil prior to planting winter wheat. The beds should be broken up and the soil mixed to a depth of 3-4 inches.

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/Dual 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, Preview⁴ etc.) or imazaquin (i.e. SCEPTER®, SQUADRON®, or TRI-SCEPT®, ALASCEPT®, SCEPTER® O.T.®, or SCEPTER® 70DG) or other products containing imazethapyr (such as PURSUIT®, PURSUIT® PLUS, or PURSUIT®/trifluralin) the same year as PURSUIT/Dual or injury to follow crops may occur.

⁴Classic, Canopy, Preview, Gemini and Lorox Plus are trademarks of E.I. duPont de Nemours and Company.
 ®Registered Trademarks of American Cyanamid Company.