

APR 03 1996

Mr. Tony E. Catka  
E.I. du Pont de Nemours and Co., Inc.  
Barley Mill Plaza, Walker's Mill Bldg. 37  
Wilmington, DE 19880-0038

Dear Mr. Catka:

Subject: Express<sup>®</sup> Herbicide  
EPA Registration No. 352-509  
Application Dated January 20, 1994 and November  
6, 1995, Request To Amend Registration by  
Adding New Use Site: Grass (Grown for Seed)  
EPA Pesticide Petition 474322, Pesticide Tolerance  
for Tribenuron Methyl, Tolerances Published  
in Federal Register April 3, 1996

The proposed use of Express Herbicide in the production of grass seed has been review and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act as amended, provided that:

1. The use of the product for the production of grass seed is restricted to the states of Idaho, Washington and Oregon. Add a use restriction: "The Use of Express Herbicide in the culture of grasses for seed production is restricted to the states of Idaho, Washington and Oregon" or "Use only in the states of Idaho, Washington and Oregon".
2. Submit one (1) printed copy of your final printed labeling before you release the product for shipment under the subject labeling.

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

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

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DuPont Agricultural Products

"... A Growing Partnership With Nature"



**EXPRESS® HERBICIDE**  
FOR WEED CONTROL IN  
GRASS GROWN EXCLUSIVELY FOR  
SEED IN THE STATES OF IDAHO,  
WASHINGTON AND OREGON

**EXPRESS® HERBICIDE**

EPA REG. NO. 352-509

**FOR WEED CONTROL IN GRASS GROWN EXCLUSIVELY FOR SEED  
IN THE STATES OF IDAHO, WASHINGTON AND OREGON**

ACCEPTED  
with COMMENTS  
In EPA Letter D-100-85  
APR 03 1996  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under FFA Reg. No.  
352-509

**GENERAL INFORMATION**

DuPont "Express" Herbicide is recommended for selective postemergence control/suppression of certain broadleaf weeds in seedling bentgrass, and seedling and established bluegrass, annual ryegrass, orchardgrass and fine fescue grown for seed.

"Express" may be used on seedling and established tall fescue and perennial ryegrass for the control of mayweed and/or suppression of wild carrot providing user accepts all risk of possible crop injury and/or reduced seed yield. See "Use Rates" portion of label.

"Express" may cause temporary yellowing and stunting of grass. Tests have shown this does not result in reduced seed yield in bluegrass, orchardgrass, fine fescue and annual ryegrass.

Best results are obtained when "Express" is applied to young, actively growing weeds. The degree of control and duration of effect are dependent on the rate used, sensitivity and size of target weeds and environmental conditions at the time of and following application.

Grass crops treated with "Express" herbicide may not be grazed for 60 days after application. Harvested seed and seed by-products may be used for feed.

**Note:** Certain varieties of grass may be sensitive to "Express." When using "Express" for the first time on a particular variety, limit use to one 10 ounce container.

**USE RATES AND TANK MIXES WITH OTHER HERBICIDES**

**Bluegrass, Annual Ryegrass, Orchardgrass and Fine Fescue**

**Seedling Stands:** Apply "Express" at 1/6 oz/A in a tank mix with another suitable broadleaf herbicide after grass is in the 4-leaf stage. On bluegrass only, rates are 1/6 to 1/3 oz/A in a tank mix with another suitable broadleaf herbicide.

**Established Stands:** For stands that have been established for at least one growing season (fall or spring), apply "Express" at 1/6 to 1/3 oz/A in a tank mix with another suitable broadleaf herbicide. Use the higher rate for larger weeds and hard to control weeds like wild carrot. Apply prior to jointing.

**Tall Fescue and Perennial Ryegrass**

Tall fescue and perennial ryegrass are more sensitive to "Express" than other grass species. Crop injury in the form of stunting and possible reduced seed yield may occur. To minimize the risk of crop injury, use the 1/6 oz/A rate and always use either 2,4-D or Banvel and liquid nitrogen with "Express".

**Seedling Stands:** Apply "Express" at 1/6 oz/A in a tank mix with another suitable broadleaf herbicide after grass is in 5- to 6-leaf stage.

**Established Stands:** For stands that have been established for one growing season (fall or spring) apply "Express" at 1/6 oz/A to 1/3 oz/A in a tank mix with another suitable broadleaf herbicide. Apply prior to jointing.

**Note:** The 1/3 oz rate of "Express" should be used only for the control or suppression of problem weeds like wild carrot where the benefit of weed control can be offset by possible crop injury including possible yield reduction.

**Bentgrass**

**Seedling Stand Only:** Apply "Express" at 1/6 oz/A in a tank mix with another suitable broadleaf herbicide after stolons are 3 to 5 inches across. Do not use "Express" during the same growing season that seed will be harvested.

**TANK MIXTURES**

Always use "Express" in a tank mix with another broadleaf herbicide such as 2,4-D, "Banvel" or MCPA as these herbicides soften the effects of "Express" on grasses while improving weed control performance on most broadleaf weeds. Testing has shown that 2,4-D and "Banvel" are more effective in a tank mix with "Express" than MCPA. The addition of liquid fertilizer is also recommended. See "Liquid Fertilizer" portion of label.

Use a minimum of 1/4 to 1/2 lb. A/A of 2,4-D or MCPA (8 to 16 fluid ounces of 4 lb/gal product). Use a minimum of 1/8 to 1/4 lb. A/A of "Banvel" (4 to 8 fluid ounces of 4 lb/gal product).

## Liquid Fertilizer

"Express" can be applied with liquid fertilizers. Liquid fertilizers (20%, 28%, 32% N at a minimum of 4 gallons/100 gallons of spray solution) enhance the performance of "Express" and improve crop safety. Always use a surfactant and another broadleaf herbicide when using liquid fertilizer with "Express".

Liquid nitrogen fertilizer solutions such as 20-0-0, 28-0-0 or 32-0-0, may be used as a carrier in place of water. To apply "Express" with liquid nitrogen fertilizer, simply add the "Express" directly to the liquid fertilizer with the agitator running (for at least 3 to 5 minutes). For fertilizer solutions that contain more than just nitrogen, for example 10-34-0, slurry the desired amount of "Express" in a clean bucket using water until a flowable mixture is produced. Add this slurry to the agitating spray tank of liquid nitrogen fertilizer solution. Thoroughly rinse all of the "Express" slurry into the spray tank. Do not use "Express" in liquid fertilizer solutions of less than pH 3.0. Run a tank mix compatibility test before mixing "Express" in fertilizer solution. If 2,4-D is included in "Express" and liquid fertilizer mixture, ester formulations are generally more compatible.

## WEEDS CONTROLLED

Naturally occurring resistant biotypes of kochia, Russian thistle and prickly lettuce are known to occur. Where resistant weeds are known or suspected to be present, always adjust the use rate of the tank mix partner so that it alone will control the resistant species.

|                      |                        |
|----------------------|------------------------|
| Black mustard        | Kochia                 |
| Blue/Purple mustard  | Mayweed chamomile      |
| Bushy wallflower     | Miner's lettuce        |
| / Treacle mustard    | Pineapple-weed         |
| Coast fiddleneck     | Prickly lettuce        |
| Common chickweed     | Red deadnettle         |
| Common groundsel     | Red sorrel             |
| Common lambsquarters | Russian thistle        |
| Corn spurry          | Slimleaf lambsquarters |
| False chamomile      | Tarweed fiddleneck     |
| Field pennyress      | Wild chamomile         |
| Flixweed             | Wild mustard           |
| Hairy buttercup      |                        |

## PARTIAL CONTROL OR SUPPRESSION\*

|                        |                          |
|------------------------|--------------------------|
| Annual sowthistle      | Redstem filaree          |
| Canada thistle         | Shepherd's-purse         |
| Common sunflower       | Spotted catsear          |
| Dovefoot geranium      | Tansymustard             |
| Hairy nightshade       | Tumble/Jina Hill mustard |
| Henbit                 | Vetch (common, hairy)    |
| Pennsylvania smartweed | Wild buckwheat           |
| Prostrate knotweed     | Wild carrot              |
| Redmaids               | Wild garlic              |
| Redroot pigweed        | Wild radish              |

\*Partial Control or Suppression - A visual reduction in weed competition (reduced stand and/or vigor) compared to an untreated area.

## Surfactant

Always use a nonionic surfactant of at least 80% active ingredient at the rate of 1/4% volume/volume (1 quart per 100 gallon of spray solution)

## Application Timing

Apply "Express" in a tank mix with another registered broadleaf herbicide when weeds are small and actively growing. Weeds stressed by drought, cold weather or water logged soils may not be adequately controlled.

See "Use Rates" section of this label for the minimum growth stage requirements by species. Do not apply to any species after jointing occurs.

**Note:** Weed control may be reduced where a dense crop canopy prevents the spray from reaching target weeds.

## Spray Preparations

Mix the proper amount of "Express" into the necessary volume of water in the spray tank with the agitator running, then add the companion herbicide to the tank after all the "Express" is in suspension. **ALWAYS MIX "EXPRESS" IN WATER FIRST, PRIOR TO ADDING OTHER PRODUCTS IN THE SAME SPRAY TANK.**

Use the spray preparation of "Express" within 24 hours as product degradation may occur. If spray preparation is left standing, thoroughly agitate before reusing.

**Additives:** Do not use spray tank additives that lower the pH of the spray solution below 3.0, as rapid product degradation can occur.

**Application Equipment:** Apply "Express" by air or ground. Use spray volume and delivery system that will ensure thorough and uniform coverage of target weeds. Do not use less than 2 gallons/acre by air, or 10 gallons/acre for ground applications.

## Precautions/Restrictions

Do not apply more than 1/3 ounce per acre per growing season.

Do not graze or cut for hay or feed associated by-products for 60 days after application. Make application at least 60 days prior to harvest of grass seed.

Do not apply "Express" in a tank mix with organophosphate insecticides as severe crop injury may occur.

Do not apply to grass that is under stress from severe weather conditions, drought, low fertility, water saturated soil, disease or insect damage, as crop injury may result. Under certain conditions such as prolonged cool weather (daily high temperature less than 50° F) or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

Do not apply to Bermudagrass.

## IMPORTANT

**BEFORE USING "EXPRESS", READ AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA-REGISTERED LABEL.**

This bulletin contains new or supplemental instructions for use of this product which do not appear on the EPA registered package label. Follow the instructions carefully.

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

\* Registered Trademark of Sandoz Crop Protection Co.

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