



PM 25

352-544

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SUPPLEMENTAL LABELING

**AGRICULTURAL PRODUCTS**

*..... A Growing Partnership With Nature*



**GEMINI® HERBICIDE  
FOR NO-TILL AND MINIMUM-TILL  
SOYBEAN PRODUCTION  
IN CERTAIN EASTERN STATES**

**GEMINI® HERBICIDE**

Reg. No. 352-544

**USE OF "GEMINI" HERBICIDE IN FULL SEASON OR DOUBLE CROP NO-TILL SOYBEAN PRODUCTION IN THE STATES OF VIRGINIA, WEST VIRGINIA, DELAWARE, MARYLAND, NORTH CAROLINA, AND PENNSYLVANIA**

Du Pont "Gemini" Herbicide is recommended for burndown of existing vegetation and preemergence broadleaf weed control in full season or double crop no-till soybean production systems in the eastern states of Delaware, Maryland, North Carolina, Pennsylvania, Virginia, and West Virginia.

**APPLICATION RATES**

Select the rate of "Gemini" from one of the charts below, according to soil type:

Rate Table 1 - "Gemini"

Soil Texture	Broadcast Rate (ounces per acre) 1/2 - 3% Organic Matter in Soil
<b>Coarse:</b> Loamy sand, Sandy loam	12 - 16
<b>Medium:</b> Loam, Silt Loam, Silt, Sandy clay loam	16 - 20
<b>Fine:</b> Silty clay loam, Clay loam, Clay	20 - 24

Do not apply to soils with less than 1/2% or greater than 3% organic matter.

**WEEDS CONTROLLED**

**Preemergence:**

When used according to this label "Gemini" will generally provide season-long preemergence control of the following weeds:

- |                            |                    |
|----------------------------|--------------------|
| Carpetweed                 | Pigweed species:   |
| Cocklebur*                 | Palmer amaranth    |
| Eastern black nightshade** | Redroot            |
| Florida begonia weed       | Smooth             |
| Jimsonweed*                | Spiny amaranth     |
| Lambsquarters              | Tall waterhemp*    |
| Mustards                   | Pricly sida        |
| Morningglories, Annual*    | Purslane, common   |
| Hyaleaf                    | Ragweed, common*   |
| Entireleaf                 | Ragweed, giant*    |
| Pitted*                    | Smartweeds, annual |
| Smallflower*               | Sprayed spurge     |
| Tall                       | Velvetleaf         |

**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 through any type of irrigation equipment.

For use on soybeans only.

Do not graze treated fields or harvest forage for hay.

**HOW TO USE**

**APPLICATION TIMING**

"Gemini" may be applied at planting or at any time up to 45 days prior to planting. Do not apply "Gemini" after the soybean crop has emerged.

**APPLICATION EQUIPMENT AND SPRAY VOLUMES**

Apply uniformly by ground equipment using a properly calibrated fixed boom sprayer. Use 10-40 gallons per acre at 20-40 psi. In no-till situations where "Gemini" is being applied over existing vegetation use flat fan nozzles and a minimum of 20 gallons per acre.

ACCEPTED

FEB - 4 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the product registered under EPA Reg. No. 352-544

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"Gemini" will also provide partial control (suppression) preemergence of the following weeds:

Burcucumber	Johnsongrass, seedling
Crabgrass species	Nutsedge species
Eastern black nightshade	Panicum species
Portulac species	

"Large-seeded weeds, germinating deep in the soil such as morningglory, and giant ragweed may require a cultivation or an application of Du Pont Classic® Herbicide postemergence for season long control. Consult "Classic" label for application directions, recropping intervals and use restrictions.

"Requires the addition of Lasso".

#### Postemergence:

"Gemini" will provide burndown control of certain small broadleaf weeds and annual grasses. To obtain burndown control of the species listed below:

Annual Grasses (except Crabgrass species)	Mustard, wild
Chickweed	Pennycress
Cocklebur	Pigweeds
Dandelion	Prickly sida (teaweed)
Garlic, wild	Ragweed, common
Henbit	Ragweed, giant
Jimsonweed	Shepherd's-purse
Lambsquarters	Smartweeds, annual
Lettuce, prickly	Velvetleaf
Marestail*	Yellow nutsedge
Morningglories, annual:	
Hyaleal	
Entireleaf	
Pitted	
Smallflower	
Tall	

o The broadleaf weeds listed below should not exceed 3" in height, the annual grasses should not exceed 1" in height. To control weeds exceeding these sizes, "Gemini" may be tank mixed with Roundup<sup>1</sup>, Gramoxone<sup>2</sup> Extra, 2,4-D (LVE) or Bronco<sup>3</sup> (see "Tank Mixes").

o Always include crop oil concentrate at 1% v/v (1 gallon per 100 gallons of spray mix.) When tank mixing with Roundup<sup>1</sup> use nonionic surfactant at 0.25% v/v (1 quart per 100 gallons of spray mix).

o Use flat fan nozzles and a minimum of 20 gallons of water per acre.

\*For control of marestail which exceeds 1" in height, apply "Gemini" in a tank mix with either Gramoxone<sup>2</sup> Extra + 2,4-D (LVE) or Roundup<sup>1</sup> + 2,4-D (LVE).

#### TANK MIXES WITH "GEMINI"

##### Grass Control:

"Gemini" will not provide adequate preemergence control of grasses. For grass control "Gemini" may be:

- o Followed, as needed, by a postemergence grass herbicide such as Du Pont Assure® II Herbicide.
- o Tank mixed with Lasso<sup>4</sup> (or other products containing the active ingredient alachlor and registered for use on soybeans), Bronco<sup>3</sup>, Dual<sup>5</sup>, Prowl<sup>6</sup> or Command<sup>7</sup>.

Refer to the label of the tank mix partner or the post grass herbicide for specific information regarding use, rates, preplant intervals, application timing, grasses controlled, precautions, restrictions and other information.

##### Burndown:

"Gemini" when mixed with crop oil concentrate, will control (burndown) many small weeds. However, to burndown those weeds listed on this label which exceed 2-3" or to burndown other species not listed, "Gemini" may be tank mixed with one of the following products:

Roundup<sup>1</sup>  
Bronco<sup>3</sup>  
Gramoxone<sup>2</sup> Extra  
2,4-D LVE<sup>8</sup>

To select the proper burndown product, identify the weeds which need to be controlled and consult the product labels to determine which product is needed. Consult the companion burndown herbicide label for use instructions, rates, precautions, restrictions and other use information.

\*2,4-D LVE is the isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid. This product is sold under a variety of trade names. It has a minimum preplant interval of 7 to 30 days and is based on the rate used. Consult the label of the product used for specific information on this interval.

#### IMPORTANT

BEFORE USING "GEMINI" READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE PRODUCT LABEL.

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

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

- <sup>1</sup> Trademark of Monsanto Company
- <sup>2</sup> Trademark of ICI Americas, Inc
- <sup>3</sup> Trademark of Ciba-Geigy Corporation
- <sup>4</sup> Trademark of American Cyanamid Company
- <sup>5</sup> Trademark of FMC Corporation

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