



352-590

04/15/99

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# SUPPLEMENTAL LABELING

## DuPont Agricultural Products



### AUTHORITY<sup>1</sup> HERBICIDE

Authority at 3 oz/a preemergence applied in a planned program followed by Roundup<sup>2</sup> Ultra + Classic<sup>®</sup> postemergence

"..... A Growing Partnership With Nature"

## AUTHORITY<sup>TM</sup> HERBICIDE

Reg. No. 352-590

### AUTHORITY AT 3 OZ/A APPLIED PREEMERGENCE FOLLOWED BY ROUNDUP ULTRA + CLASSIC APPLIED POSTEMERGENCE IN ROUNDUP READY SOYBEANS: A PROGRAM APPROACH FOR USE IN THE STATES OF DE, IA, IL, IN, KS, KY, MD, MI, MO, NE, NJ, OH, OK, PA, VA AND WV

A planned program of 3 oz/a Authority applied preemergence or early preplant followed by 1-2 pts/a of Roundup Ultra + .25 - .33 oz/a Classic applied postemergence will control many broadleaf and grass weeds in soybeans when used according to the use instructions in this Supplemental label.

#### WEEDS CONTROLLED PREEMERGENCE FROM THE AUTHORITY APPLICATION

Authority applied at 3 oz/a will give early season control or suppression of the following weeds:

#### DIRECTIONS FOR USE

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

The planned program of 3 oz/a Authority followed by Roundup Ultra + Classic as described in this supplemental label is recommended for use on soybeans designated Roundup Ready<sup>2</sup>. Severe injury or death of soybeans will result if any soybeans not designated 'Roundup Ready' are treated postemergence with the Roundup Ultra Herbicide portion of this label.

Before using the Authority fb Roundup Ultra + Classic program approach, read and carefully observe the cautionary statements and all other information in the Authority, Classic, and Roundup Ultra Specimen Labels.

#### APPLICATION TIMING, RATE AND ADJUVANTS FOR AUTHORITY

Authority at 3 oz/a can be applied to conservation tillage fields up to 30 days before planting soybeans and at-planting or immediately after planting but prior to soybean emergence. For burn-down, always include a Crop Oil Concentrate at 1% v/v (1 gallon per 100 gallons of finished spray).

Authority 3 oz/a may be applied preplant incorporated or pre-emergence before the soybeans emerge.

Table 1. Early season weed control or suppression from 3 oz/a Authority

Control	Suppression
Amaranth, Palmer	Cocklebur
Carpetweed	Jimsonweed
Lambsquarters *	Morningglory, pitted
Morningglories, tall, entireleaf	Prickly Sida
Nightshade, e. black	Ragweed, common
Pigweeds *	Smartweed, P.
Velvetleaf	Crabgrass spp.
Waterhemp	Barnyardgrass
	Fall Panicum
	Foxtails spp.

ACCEPTED  
APR 15 1999  
\* includes triazine resistant pigweed

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 352-590

**Application Timing, Rate and Adjuvants for Roundup Ultra + Classic**

As a planned program approach, all applications of Authority at 3 oz/a should be followed with a properly timed post application of 1 -2 pts/a Roundup Ultra + .25 - .33 oz/a Classic for maximum weed control of the species listed in Table 2 below. Refer to the Roundup Ultra label for other weeds which may be controlled or suppressed and the maximum size at application.

**Rate and Timing**

Refer to the Classic + Roundup Ultra Supplemental label for weed sizes which will be controlled by 1, 1.5, or 2 pts/a Roundup Ultra + .25 - .33 oz/a Classic. Best results are obtained when these tankmixes are applied to actively growing weeds, several weeks after planting.

Apply the Classic + Roundup Ultra tankmix to 'Roundup Ready' soybeans anytime after the first trifoliate has expanded fully and apply no later than 60 days before harvest.

**Adjuvants and Mixing instructions**

A nonionic surfactant at 2 pt per 100 gal of spray solution (0.25% v/v) must be used with the Classic + Roundup tankmix. In addition to the nonionic surfactant, an ammonium nitrogen fertilizer is recommended and required where Velvetleaf is present. Refer to the Classic + Roundup Ultra Supplemental label for specific ammonium nitrogen fertilizer recommendations as well as mixing instructions for the Classic + Roundup Ultra tankmix.

**Weeds controlled**

When applied as directed in this Supplemental label, 3 oz Authority followed by a tankmix of 1-2 pts/a Roundup Ultra + .25 - .33 oz/a Classic will result in control of the following weeds\*

**Table 2. Weeds controlled by Authority 3 oz/a followed by Classic + Roundup Ultra program approach**

Barnyardgrass	Pigweed species
Cocklebur	Prickly Sida
Corn, volunteer	Ragweed species
Crabgrass species	Sicklepod
Foxtail species	Signalgrass, broadleaf
Hemp Sesbania	Smartweeds, annual
Jimsonweed	Sunflower
Lambsquarters	Velvetleaf
Morningglory species	Waterhemp species
Nightshade, e. black	Yellow Nutsedge
Palmer amaranth	Waterhemp species
Panicum species	Yellow Nutsedge

\* Refer to the Roundup Ultra label for other weeds which may be controlled or suppressed and the maximum size at application.

**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. Continuous agitation in the spray tank is required to keep the materials in suspension. Avoid overlap and shut off spray booms while turning, slowing, or stopping, as injury to the crop may result. For burndown applications of existing vegetation, always add 1% v/v crop oil concentrate, and use flat fan nozzles with a minimum of 20 gallons per acre to insure good spray coverage of the weeds to be burned down.

**Burndown control of existing winter and summer annuals**

Authority at 3 oz/a applied prior to planting will provide burndown control of certain 1-2" annual broadleaf weeds, winter annuals and up to 1" annual grasses. To obtain burndown of the species listed below in Table 3, always use Authority plus 1% COC.

**Table 3. Weeds burned down by 3 oz/a Authority + 1% COC v/v**

Catchweed	Bedstraw	Purselane	Speedwell
Foxtail sp.		Red Henbit	
Lambsquarters		Smallflower	Buttercup
Purple Deadnettle		Smartweed, P.	

The annual grasses should not exceed 1" in height. For burndown of annual grasses taller than 1", add 2.5 - 5.0 oz Assure® II. The broadleaf weeds should not exceed 2" in height. For burndown of larger weeds or for a broader burndown spectrum of weeds, 3 oz/a Authority may be tankmixed with Roundup Ultra, Gramoxone® Extra, Bronco®, or 2,4-D LVE. Always include crop oil concentrate at 1% V/V (1 gallon per 100 gallons of spray mix). When tank mixing with Roundup Ultra or Bronco, refer to these product labels for specific adjuvant recommendations; however, to optimize burndown from the Authority, add .25% NIS when tankmixing Authority with Roundup Ultra or Bronco. To select the proper burndown product, identify the weeds that need to be controlled and consult the product labels to determine which product is needed. Consult the companion burndown herbicide for use instructions, rates, precautions, restrictions and other use information.

For chickweed burndown control, 2-4 oz of Lexone® or Sencor® may be added.

**Rotational Guidelines**

The following table describes the minimum length in months from the Authority application until the treated soil can be replanted to the crops listed below:

Crop	Interval in months
soybeans	anytime
wheat, barley, rye	4
field corn *	10
rice	10
sorghum	10
alfalfa	12
dry beans	12
Clover, cotton, cucumber, flax, pumpkin, sunflower, sweet corn, watermelon, cabbage, lentils, mustard	18
Canola, Carrot, Onion, Potato, Sugar Beets, and any other crop not listed	30

\* field corn is defined to include only that corn grown for grain, silage, popcorn and seed corn.

**IMPORTANT**

**BEFORE USING AUTHORITY, READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE AUTHORITY EPA-REGISTERED LABEL.**

This bulletin contains new or supplemental instructions for use of this product that 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 FMC Corp.

<sup>2</sup> Trademark of Monsanto Agricultural products, Co.

<sup>3</sup> Trademark of Zeneca, Inc.

<sup>4</sup> Trademark of Bayer Corp.

**Precautions**

Before using the Program Approach of 3 oz/a Authority followed by .25 - .33 oz/a Classic + 1-2 pts Roundup Ultra, read and follow the Classic + Roundup Supplemental label, and the Authority, Classic and Roundup Ultra Specimen labels for all applicable directions, precautions, restrictions, and other information.

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