

PM 25 4787-31 1/30/99

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**ACCEPTED**

**NOV 20 1999**  
**NOV 30 1999**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **4787-31**

**SUPPLEMENTAL LABELING**

**GLYFOS® HERBICIDE**  
EPA Reg. No. 4787-31

For post-emergence application to soybean varieties with the ROUNDUP READY® Gene.

Read the entire label (booklet, container label, and this supplement) for GLYFOS Herbicide before proceeding with the use directions in this supplemental labeling.

® ROUNDUP READY and Roundup Ready Gene are trademarks of the Monsanto Company  
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**Keep out of reach of children.**  
**WARNING**

In case of medical emergency call toll-free day or night 1-800-228-5635, ext. 153

**Directions for use**

It is a violation of Federal law to use this product in any manner that is inconsistent with its labeling. This label must be in the possession of the user at the time of application. See "GENERAL INFORMATION" and "MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS" section of the main label booklet for essential product performance information.

**General Information**

**CHEMINOVA RECOMMENDS USE OF THIS PRODUCT FOR POST-EMERGENCE APPLICATION ONLY ON SOYBEAN VARIETIES WHICH HAVE THE ROUNDUP-READY® GENE.**

- Applying this product to soybean varieties which are not designated as "Roundup Ready" will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops or any desirable plants that do not contain the Roundup-Ready gene, since severe injury will result.
- Roundup Ready varieties must be purchased from an authorized seed supplier. Crop safety and weed control performance are not warranted when this product is used in conjunction with seed from unauthorized sources or seed saved from previous year's production and replanted.
- The "Roundup Ready" designation indicates that the soybean contains a patented gene which provides tolerance to certain glyphosate-containing herbicides including GLYFOS® Herbicide.

Information on Roundup Ready soybeans is available from your seed supplier.

**Application Instructions**

This product may be applied post-emergence to Roundup Ready soybeans from the cracking stage through the full flowering stage.

**Pre-harvest Interval:** Allow a minimum of 14 days between application and harvest of soybeans.

**Maximum Allowable Yearly Rates (See Footnote 1)**

**Pre-plant:** Maximum amount of GLYFOS Herbicide which can be applied prior to crop emergence is 5 quarts per acre.

**In-Crop:** Maximum combined total of single or multiple in-crop applications of this product from cracking to flowering is 3 quarts per acre. The maximum rate for any single in-crop application is 2 quarts per acre. The maximum combined total of this product which can be applied during flowering is 2 quarts per acre.

**Pre-harvest:** Maximum amount of this product which can be applied after loss of green color in soybean pods until 14 days before harvest is one quart per acre. The maximum for any single in-crop application is 2 quarts per acre. The maximum combined total of this product which can be applied during flowering is 2 quarts per acre.

**Cropping Season:** Combined total for the year for all applications of this product may not exceed 8 quarts per acre.

When used as directed, this product will control annual grasses and broadleaf weeds listed on the GLYFOS label in Roundup Ready soybeans. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product.

There are no rotational crop restrictions following applications of this product.

**Ground Application:** Use the recommended rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use nozzles which provide a flat fan pattern. Check for even distribution of spray droplets.

**Aerial Application:** Use the recommended rates of this product in 3 to 15 gallons of water per acre. Do not exceed 1 quart of this product per acre. DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

### RATES FOR ANNUAL WEEDS

The following recommended rates will provide control of annual grasses and broadleaf weeds listed in the GLYFOS label in conventional and no-till soybean production systems. Refer to the label booklet for rate recommendations for specific annual weeds.

Tank mixtures with other herbicides are not recommended due to the potential for crop injury and/or weed antagonism, and to rotational crop restrictions of the tank mixed partner.

This product may be used at a rate of up to 64 fluid ounces (2 quarts) per acre in any single application for control of annual weeds, where heavy weed densities exist. The maximum combined total of this product which can be applied during flowering is 2 quarts per acre.

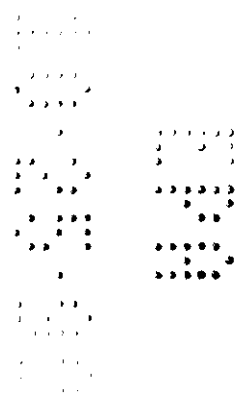
NOTE: The following recommendations are based on a clean start at planting by using a burn-down application or tillage to control existing weeds before soybean emergence. In stale seedbed or no-till systems, a pre-plant burn-down treatment of 1/2 to 2 quarts (16 to 64 fluid ounces) per acre of this product may be applied to control existing weeds prior to crop emergence.

#### Midwest/ Mid-Atlantic Recommendations

**Narrow-row or drilled soybeans:** A single in-crop application of this product will provide effective control of labeled weeds. For best results an initial application of 1 quart (32 fluid ounces) per acre on 4 to 8 inch weeds is recommended. Weeds will generally be 4 to 8 inched tall 3 to 5 weeks after planting. If the initial application is delayed, and weeds are 8 to 18 inches tall, use 1 1/2 quarts (48 fluid ounces) per acre for best results.

Under adverse conditions such as drought, hail, wind damage, or a poor soybean stand that slows or delays canopy closure, a sequential application of this product at 24 to 32 fluid ounces per acre may be necessary to control late flushes of weeds. The combined total applications of this product made in-crop is not to exceed 96 fluid ounces per acre.

**Wide-row soybeans:** An in-crop application of this product will provide effective control of the initial stand of labeled weeds. For best results, an initial application of 1 quart (32 fluid ounces) per acre on 4 to 8 inch weeds is recommended. Weeds will generally be 4 to 8 inches tall 3 to 5 weeks after planting. If new flushes of weeds occur they can be controlled by sequential applications of this product.



Initial Treatment and Sequential\* (if needed) Applications

<u>Weed Height (inches)</u>	<u>Rate (fl. oz. per acre)</u>
1 - 4	24
4 - 8	32
8 - 18	48

\* Combined total application in-crop shall not exceed 96 fluid ounces per acre.

Black nightshade, Pennsylvania smartweed, velvetleaf and waterhemp: Apply 32 fluid ounces (1 quart) per acre to weeds 3 - 6 inches tall and 48 fluid ounces (1½ quarts) to weeds up to 12 inches tall. For morningglory species, apply 32 fluid ounces (1 quart) to weeds up to 4 inches and 48 fluid ounces (1½ quarts) to weeds up to 6 inches.

Giant ragweed: apply 32 fluid ounces per acre when the weed is 8 - 12 inches tall to avoid the need for sequential application.

Some weeds such as black nightshade, wooly cupgrass, shattercane, wild proso millet, burcucumber, and giant ragweed with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential application. Sequential applications should be made after some regrowth has occurred. Use a minimum of 16 fluid ounces per acre of this product for sequential applications. The combined yearly total of in-crop applications postemergence, of this product must not exceed 96 fluid ounces per acre.

**Southeast Recommendations**

**Narrow-row, drilled, or wide-row soybeans:** A single in-crop application of this product will provide effective control of the initial stand of labeled weeds. For best results, an initial application of 32 fluid ounces (1 quart) per acre on 3 to 6 inch weeds is recommended. Weeds will generally be 3 to 6 inches tall 2 to 3 weeks after planting.

Initial Treatment

<u>Weed Height (inches)</u>	<u>Rate (fl. oz. per acre)</u>
3 - 6	32
6 - 12	48

Under adverse growing conditions such as drought, hail, wind damage, or a poor stand of soybeans that slows or delays canopy closure, a sequential application of this product at 16-32 fluid ounces per acre may be necessary to control late flushes of weeds.

Sequential Application\* (if needed)

Weed Height (inches)	Rate (fl. oz. per acre)
2 - 3	16
3 - 6	24
6 - 12	32

\* Combined total application in-crop shall not exceed 96 fluid ounces per acre.

Florida pusley, hemp sesbania, and spurred anoda: Apply 32 fluid ounces (1 quart) per acre to weeds 2-4 inches tall for the initial application. Apply 32 fluid ounces (1 quart) per acre when these weeds are 3 to 6 inches tall if a sequential application is needed.

For morningglory, black nightshade, groundcherry, and Pennsylvania smartweed, apply the following rates for the initial application:

Weed Height (inches)	Rate (fl. oz. per acre)
1 - 3	24
3 - 6	32
6 - 12	48

Some weeds such as black nightshade, broadleaf signalgrass, Texas panicum, burcucumber, and sicklepod with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential application. Sequential applications should be made after some regrowth of has occurred. Use a minimum of 16 fluid ounces per acre of this product for sequential applications. The combined total of all in-crop applications of this product postemergence must not exceed 96 fluid ounces per acre.

**Delta/ Mid-south Recommendations**

**Narrow-row, drilled or wide-row soybeans:** A single in-crop application of this product will provide effective control of the initial stand of labeled weeds. New flushes of weeds can be controlled by sequential applications of this product. Combined yearly total of this product is not to exceed 96 fluid ounces per acre. For best results, an initial application of 32 fluid ounces (1 quart) per acre on 2 to 4 inch weeds is recommended. Weeds will generally be 2 to 4 inches tall 2 to 3 weeks after planting.

Initial Treatment

Weed Height (inches)	Rate (fl. oz. per acre)
2 - 4	32
5 - 12	48

Sequential Application\*

Weed Height (inches)	Rate (fl. oz. per acre)
2 - 3	16
3 - 6	24
6 - 12	32

\* Combined total application in-crop shall not exceed 96 fluid ounces per acre.

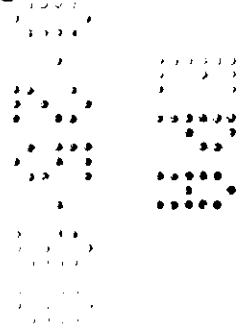
Hemp sesbania and spurred anoda: Apply a sequential treatment of 32 fluid ounces (1 quart) per acre on weeds 3 - 6 inches tall if required.

Some weeds such as black nightshade, broadleaf signalgrass, Texas panicum, burcucumber, and sicklepod, with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential application. Sequential applications should be made after some regrowth of has occurred. Use a minimum of 16 fluid ounces per acre of this product for sequential applications. The combined total applications postemergence of this product must not exceed 96 fluid ounces per acre.

**Perennial Weeds Rate Recommendations**

A 32 to 64 fluid ounces (1 to 2 quarts) per acre rate (single or sequential applications) of this product will control or suppress perennial weeds such as: Bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, marestail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed, and wirestem muhly.

For best results, allow perennial weed species to achieve at least 6 inches of growth before spraying with GLYFOS. For additional information on perennial weeds, see the "PERENNIAL WEED RATE TABLE " of the label booklet for GLYFOS. For some perennial weeds, repeat application may be required to eliminate crop competition throughout the growing season.



**Note: Non-ionic Surfactant:** Non-ionic surfactants which are labeled for use with postemergence herbicides may be used. When using additional surfactant, use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 70 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 70 percent active ingredient.

The addition of certain surfactant to this product may result in some crop response including leaf necrosis, leaf chlorosis or leaf speckling due to the surfactant added to the spray mixture. Read and carefully observe cautionary statements and other information appearing on the surfactant label.

**Footnote 1:** The yearly maximum allowable rates of GLYFOS Herbicide also includes other glyphosate-containing products such as, GLYFOS X-TRA, GLYFOS AU, Roundup Classic and Roundup Ultra that may be used on the crop.

This supplemental label is valid until February 28, 2001.

Read the "DISCLAIMER" in the GLYFOS label booklet before using. These terms apply to supplemental labeling and if these terms are not acceptable, return the unopened product at once.

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Authorized representative:  
Cheminova, Inc.  
Oak Hill Park  
1700 Route 23  
Suite 210  
Wayne, NJ 07470

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