

## SUPPLEMENTAL LABELING

### **GLYFOS® HERBICIDE**

EPA Reg. No. 4787-31

**For post-emergence application to corn hybrids 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. "Label" as used in this supplemental labeling refers to the label booklet for GLYFOS herbicide, container labels and this supplement.**

**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.

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, other than corn with the ROUNDUP-READY gene, because severe injury or destruction may result.

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

Applying this product to corn hybrids which are not designated as "Roundup Ready" will result in severe crop injury and yield loss.

The "Roundup Ready" designation indicates that the corn contains a patented gene which provides tolerance to certain glyphosate-containing herbicides including GLYFOS. Information on Roundup Ready corn is available from your seed supplier. Crop safety and weed control performance are not warranted when this product is used in conjunction with seed from unauthorized sources.

### **Application Instructions**

This product may be applied post-emergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches, whichever comes first. Single in-crop applications of GLYFOS are not to exceed 1 quart per acre. Sequential in-crop applications of GLYFOS from emergence through the V8 stage or 30 inches, must not exceed 2 quarts per year.

- GLYFOS is a trademark of Cheminova Agro A/S
- ROUNDUP-READY, ROUNDUP CLASSIC and ROUNDUP ULTRA are trademarks of Monsanto Company

**Maximum Yearly Amounts Allowed (See Footnote 1)**

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

**In-crop:** Maximum combined total of multiple in-crop applications from emergence through the V8 stage or 30 inches is 2 quarts per acre.

**Preharvest:** Maximum amount of GLYFOS that can be applied after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days prior to harvest is 1 quart per acre.

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

Summary Table of GLYFOS Use Directions on ROUNDUP-READY Corn				
Timing of Use	Applications	Max. Rate of GLYFOS per Application	Maximum Amount Applied	Preharvest Interval When Corn is Harvested for:
Preplant, Pre-emergence	Single or Sequential		5 quarts / acre	Forage - 50 days Grain - see below
Post-emergence, In-crop (Emergence to V-8 stage or 30" high.)	Single	1 quart / acre	1 quart / acre	Forage - 50 days Grain - see below
	Sequential (Min. 10 day interval between applications)	1 quart / acre	2 quarts / acre	Forage - Prohibited Grain - see below
Pre-harvest, corn for grain (Black layer to 7 days PHI)	Single	1 quart / acre	1 quart / acre	Grain - 7 days
Combined per year total for all applications:			8 quarts / acre	

When applied as directed, this product controls labeled annual grasses and broadleaf weeds in ROUNDUP-READY corn. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Applications should be made to actively growing weeds before they reach the maximum height listed in the "WEEDS CONTROLLED" section of this label for GLYFOS Herbicide. Refer to the "MIXING" section of the label for proper use instructions.

**Ammonium Sulfate:** Ammonium Sulfate may be mixed with this product for applications to ROUNDUP-READY corn. Refer to the "ADDITIVES" section of the GLYFOS label for use instructions for ammonium sulfate.

**Preharvest Intervals:** Allow a minimum of 50 days between application of this product and harvest of corn forage and 7 days between application and harvest of corn grain. Allow a minimum of 10 days between in-crop applications of this product. **Do Not graze, harvest or feed corn forage or silage following sequential in-crop applications of this product on ROUNDUP-READY corn.** There are no rotational crop restrictions following applications of this product.

**ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE EXERCISED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP-READY GENE.**

THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING GLYFOS.

**Ground Applications:** Use the recommended rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Carefully select correct nozzles and spray pressure to avoid spraying a fine mist. Check for even distribution of spray droplets.

**Aerial Applications:** Use the recommended rates of GLYFOS in 3 to 15 gallons of spray solution per acre. Do not exceed 1 quart per acre. See "WEEDS CONTROLLED" section on the label for recommended rates. AVOID DRIFT. DO NOT APPLY DURING INVERSION CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO DESIRABLE VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO DESIRABLE VEGETATION BUFFER ZONES MUST BE MAINTAINED.

AERIAL APPLICATIONS TO ROUNDUP-READY CORN MAY BE MADE ONLY IN THE FOLLOWING STATES:

Alabama	Arkansas	Colorado
Florida	Georgia	Kansas
Louisiana	Mississippi	Missouri (Bootheel only)
Nebraska	North Carolina	North Dakota
Oklahoma	South Carolina	South Dakota
Tennessee	Texas	

#### Weed Control Recommendations

Apply 24 to 32 fluid ounces of GLYFOS herbicide per acre for control of labeled grasses and broadleaf weeds in conventional and no-till corn production systems. Refer to the label booklet for GLYFOS for rate recommendations for specific annual weeds. GLYFOS applied up to 1 quart per acre will control or suppress the growth of perennial weeds such as:

bermuda grass	Canada Thistle	common milkweed
field bindweed	hemp dogbane	horserattle
nutsedge	quackgrass	rhizome johnsongrass
redvine	trumpet creeper	swamp smartweed
wirestem muhly		

For additional information on perennial weeds, see the "PERENNIAL WEED RATE TABLE" of the label booklet for GLYFOS herbicide.

#### Pre-emergence followed by Post-emergence Weed Control Program:

This product may be applied post-emergence in-crop following any labeled pre-emergence herbicide application. The post application of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. A single in-crop application of this product at the recommended rate will provide control of emerged weeds listed on this label. This product may be applied post-emergence to Roundup-Ready corn from emergence through the V-8 (8 leaves with collars) stage or until corn height reaches 30 inches (free standing), whichever comes first.

#### Post-emergence Only Weed Control Program:

This product may be applied alone as a post-emergence in-crop application to provide control of emerged weeds listed on the label. The post emergence application of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces per acre will control the listed grasses and broadleaf leaves. This product may be applied post-emergence to Roundup-Ready corn from emergence to the V-8 stage or until corn height reaches 30 inches (free standing), whichever comes first.

This product may be applied in tank mixtures with a labeled rate of Harness®, Harness® Xtra, Harness® Xtra 5.6L, Micro-Tech®, Bullet®, Partner®, Permit®, or Atrazine. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines, the more restrictive requirements apply. Tank mixtures with other products may result in increased potential for crop injury and/or weed antagonism. Refer to the table below for height limitation for tank mix partner.

<b>Tank Mix Partner</b>	<b>Max. Height of Corn for Application</b>
Harness	11 inches
Harness Xtra	11 inches
Harness Xtra 5.6L	11 inches
Bullet	5 inches
Micro-Tech	5 inches
Partner	5 inches
Permit	24 inches
Atrazine	12 inches

Bullet, Micro-Tech and Partner are not registered products for use as a post-emergence application in Texas.

NOTE: Non-ionic Surfactant which are labeled for use with post-emergence herbicides may be used. When using additional surfactant, use 0.5 percent surfactant concentration (2 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 in the surfactant label.

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

Footnote 1: The yearly maximum allowable rates of GLYFOS also include other glyphosate-containing products, such as GLYFOS X-TRA, Roundup Classic and Roundup Ultra.

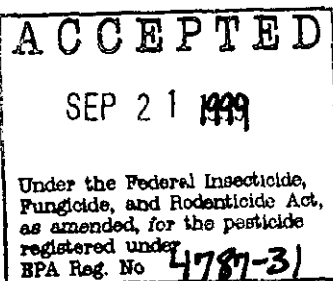
Bullet®, Harness®, Micro-Tech® and Partner® are registered trademarks of Monsanto Company. Permit® is a registered trademark of, and used under licence from, Nissan Chemical Industries, Ltd.

This supplemental label is valid until February 28, 2001.

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## SUPPLEMENTAL LABELING

### GLYFOS® HERBICIDE

EPA Reg. No. 4787-31

FOR POST-EMERGENCE IN-CROP APPLICATION TO COTTON  
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. "Label" as used in this supplemental labeling refers to the label booklet for GLYFOS herbicide and this supplement.**

**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**

**ATTENTION: CHEMINOVA RECOMMENDS THIS PRODUCT FOR USE ONLY OVER-THE-TOP OF, OR DIRECTED ONTO, IMPROVED COTTON VARIETIES THAT ARE DESIGNATED AS COTTON WITH THE ROUNDUP-READY® GENE. SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP-READY GENE ARE SPRAYED WITH THIS PRODUCT. AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, FRUIT OF CROPS, OR ANY DESIRABLE PLANTS AND TREES, OTHER THAN CROPS WITH THE ROUNDUP-READY GENE, SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT. ROUNDUP-READY COTTON VARIETIES MUST BE PURCHASED FROM AN AUTHORIZED LICENSED SEED SUPPLIER. THE DESIGNATION "ROUNDUP-READY", INDICATES THE COTTON CONTAINS A PATENTED PROPRIETARY TRAIT.**

COTTON WITH THE ROUNDUP-READY GENE MAY ONLY BE USED FOR PLANTING A COMMERCIAL CROP IN A SINGLE SEASON. SEED MAY NOT BE SAVED FOR REPLANTING AND SAVED SEED MAY NOT BE SUPPLIED TO OTHERS FOR REPLANTING. CHEMINOVA DOES NOT WARRANT THE SAFETY OR PERFORMANCE OF THIS PRODUCT WHEN USED ON "BROWN BAG" OR FARMER-MADE SEED.

### Application Instructions

This product will control many troublesome weeds with over-the-top, post-directed, hooded sprayer, or preharvest applications in Roundup-Ready cotton.

#### Maximum Allowable Yearly Rates of GLYFOS<sup>1</sup>

1.	Combined total per year for all applications	8 quarts per acre
2.	Preplant, pre-emergence applications	5 quarts per acre
3.	Total in-crop applications from cracking to layby	4 quarts per acre
4.	Maximum preharvest application rate	2 quarts per acre

**For Ground Applications** With broadcast equipment, apply GLYFOS in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

**For Aerial Applications** Apply GLYFOS in 3 to 15 gallons of spray solution per acre.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP-READY GENE. 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.

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

**Spray Equipment Preparation:** It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of GLYFOS to Roundup-Ready cotton. Follow the cleaning procedures specified on the label of the product(s) previously used. Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use of this product.

In addition to uses listed in the GLYFOS herbicide label booklet, the following applications can be made:

**Over-the-top applications:** This product may be applied by aerial or ground application equipment post-emergence to Roundup-Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the four leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss. Any single over-the-top broadcast application should not exceed 1 quart per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the four leaf (node) stage of development. Sequential over-the-top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

**NOTE:** Always plant into a weed free seedbed. In no-till and stale seedbed systems always burn down existing weeds before cotton emerges. Apply a preplant burndown treatment of 16 to 48 fluid ounces per acre of GLYFOS herbicide.

**Post-directed or hooded applications:** This product may be applied using precision post-directed or hooded sprayers to Roundup-Ready cotton through layby. At this stage, post-directed equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with the cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact the weeds in the row, and maintain low spray pressure (less than 30 psi). For best results, make applications while weeds are small (less than 3 inches). Applications that contact the cotton leaves may result in boll loss, delayed maturity and/or yield loss. Any single post-directed application should not exceed 1 quart per acre of GLYFOS. No more than two applications should be made from the fifth leaf stage through layby. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

**ATTENTION:** Use of GLYFOS herbicide in accordance with label directions is expected to result in normal growth of Roundup-Ready cotton, however, various environmental conditions, agronomic practices and other factors make it impossible to eliminate all risks associated with the use of this product, even when applications are made in conformance with the label specifications. In some cases, these factors can result in boll loss, delayed maturity and/or yield loss.

**Salvage Treatment:** This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top application or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. **Note:** Salvage treatments will result in significant boll loss, delayed maturity and/or yield loss. **No more than one salvage treatment should be used per growing season.**

**Weeds Controlled:** For specific rates of application and instructions for control of various annual and perennial weeds, refer to "ANNUAL WEEDS RATE TABLE" section of the label pamphlet. GLYFOS herbicide applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition:

yellow and purple nutsedge	rhizome johnsongrass
common bermuda grass	silverleaf nightshade
trumpet creeper	redvine

Fall pre-harvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications with GLYFOS.

Some weeds with multiple germination times or suppressed (stunted) weeds, may require sequential applications of this product for control.

**Pre-harvest applications:** GLYFOS may be applied for pre-harvest annual and perennial weed control as a broadcast treatment to Roundup-Ready cotton after 20% boll crack. Allow a minimum of 7 days between application and harvest. THE USE OF ADDITIVES FOR PREHARVEST APPLICATION OF GLYFOS TO ROUNDUP-READY COTTON IS PROHIBITED. For specific recommendations refer to the "COTTON" section of the GLYFOS herbicide label pamphlet. **Note:** GLYFOS will not enhance the performance of harvest aids when applied to Roundup-Ready cotton. DO NOT APPLY GLYFOS HERBICIDE PREHARVEST TO CROPS GROWN FOR SEED.

NOTE: Non-ionic Surfactant which is labeled for use with post-emergence herbicides may be used. When using additional surfactant, use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactant which contains at least 70 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for surfactant containing less than 70 percent active ingredient.

\* The yearly maximum allowable amount of GLYFOS that can be applied also includes other glyphosate-containing products, such as Glyfos X-Tra®, Roundup® and Roundup® Ultra.

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® Roundup-Ready and Roundup are registered trademarks of Monsanto Company

This supplemental label is valid until February 28, 2001.

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