

# SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP® ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this supplement.

ROUNDUP® ULTRA  
Herbicide by Monsanto

EPA Reg. No. 524-475

<b>ACCEPTED</b>
<b>AUG 11 1999</b>
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. <b>524-475</b>

USE ONLY FOR SEED PRODUCTION OF RICE WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

### CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

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

### DIRECTIONS FOR USE

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

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

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN RICE WITH THE ROUNDUP READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

**NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT RICE IN PRODUCTION FIELDS OF RICE CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH WILL RESULT IF RICE VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.**

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## USE RECOMMENDATIONS

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This product will control non-glyphosate tolerant rice in seed production fields of rice containing the Roundup Ready gene. Apply up to 64 ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. A second application up to 64 ounces per acre may be applied, if needed to control non-glyphosate tolerant rice plants.

**DO NOT EXCEED A MAXIMUM RATE OF 4 QUART OF THIS PRODUCT PER ACRE PER SEASON.**

Application timing -- This product can be applied to Roundup Ready rice from emergence to harvest.

Treated rice may not be used for food or feed. Do not feed or graze treated rice. Do not process treated rice for food or feed.

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Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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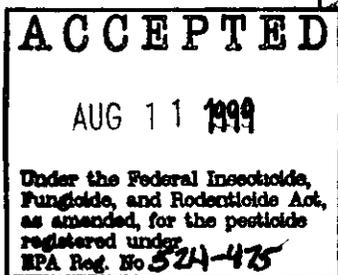
MAP

MONSANTO COMPANY  
ST. LOUIS, MISSOURI 63167

**SUPPLEMENTAL LABELING**

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**Roundup Ultra Herbicide**

EPA Reg. No. 524-475

**FOR POSTEMERGENCE APPLICATIONS TO SOYBEANS WITH THE ROUNDUP READY® GENE**

**Keep out of reach of children.  
CAUTION!**

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Roundup® and Roundup Ready® Gene are registered trademarks of Monsanto Company.  
Roundup Ready® is a trademark of Monsanto Company.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This label must be in the possession of the user at the time of application. See "GENERAL INFORMATION" and "APPLICATION INSTRUCTIONS" sections of the label booklet for Roundup® Ultra herbicide for essential product performance information.

**General Information**

MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON SOYBEAN VARIETIES DESIGNATED AS CONTAINING 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 which do not contain the Roundup Ready gene, since severe injury or destruction will result.
- The Roundup Ready designation indicates that the soybean contains a patented gene which provides tolerance to Monsanto's Roundup brand herbicides. Information on Roundup Ready soybeans may be obtained from your seed supplier or Monsanto representative.

**Application Instructions**

This product may be applied postemergence to Roundup Ready soybeans from the cracking stage throughout flowering. Allow a minimum of 14 days between application and harvest of soybeans.

**Maximum Allowable Application Rates:**

- Combined total per year for all applications 8 quarts per acre
- Preplant, Preemergence applications 5 quarts per acre
- Total in-crop applications from cracking throughout flowering 3 quarts per acre
- Maximum preharvest application rate 1 quart per acre

When applied as directed, this product will control labeled annual grasses and broadleaf weeds in Roundup Ready soybeans. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product.

**PRECAUTIONS/RESTRICTIONS:** The combined total application from crop emergence through harvest must not exceed 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. Allow a minimum of 14 days between final application and harvest of soybeans.

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

**For ground applications:** Use the recommended rates of this product in 3 to 40 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.

**For aerial applications:** Use the recommended rates of this product in 3 to 15 gallons of spray solution 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. MAINTAIN APPROPRIATE BUFFER ZONES TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION.

THIS LABEL ALLOWS FOR AERIAL APPLICATIONS ON ROUNDUP READY SOYBEANS IN THE FOLLOWING STATES: ILLINOIS, INDIANA, IOWA, MISSOURI AND OHIO.

Consult the Monsanto Use Guide "A Guide to On-Target Aerial Application" before aerial applications over-the-top of Roundup Ready soybeans.

## ANNUAL WEED RATE TABLES

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

Monsanto will not warrant crop safety or weed control when Roundup Ready soybeans are treated with herbicides not specified on this supplemental label. Because of the potential for: 1) crop injury, 2) poor weed control from antagonism, and/or 3) rotational crop restrictions, herbicides not specified on this supplemental label should not be used, whether applied preemergence or applied postemergence as a tank mixture with Roundup Ultra.

This product may be used up to 2 quarts per acre in any single application for control of annual weeds, where heavy weed densities exist.

**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 crop emergence. In no-till and stale seedbed systems, a preplant burn-down treatment of 16-64 fluid ounces per acre of this product can be used 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 per acre on 4-8" weeds is recommended. Weeds will generally be 4-8" tall 3 to 5 weeks after planting. If the initial application is delayed and weeds are 8-18" tall, use 48 ounces/A for best results.

Under adverse growing 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.

**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 per acre on 4-8" weeds is recommended. Weeds will generally be 4-8" tall 3 to 5 weeks after planting. If new flushes of weeds occur, they can be controlled by sequential applications of this product.

#### Initial and Sequential (if needed) Applications

<u>Weed Height</u> <u>(inches)</u>	<u>Rate</u> <u>(fl oz/A)</u>
1-3	24
4-8	32
8-18	48

Giant ragweed: Apply 1 quart per acre when the weed is 8-12" tall to avoid the need for sequential application.

Black nightshade, Pennsylvania smartweed, velvetleaf, and waterhemp: Apply 1 quart/A to weeds 3-6" tall, and 48 oz/A when weeds are up to 12" tall. For morningglory species, apply 32 oz/A when weeds are up to 4" tall and 48 fl oz/A when weeds are up to 6" tall.

Some weeds, such as black nightshade, woolly cupgrass, shattercane, wild proso millet, burcumber, and giant ragweed, with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential applications. Sequential applications should be made after some regrowth has occurred. Use a minimum of 24 fluid ounces of this product per acre for sequential applications.

**PERENNIAL WEEDS RATE RECOMMENDATIONS**

A 1 to 2 quarts per acre rate (single or multiple 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" of growth before spraying with Roundup Ultra. For additional information on perennial weeds, see the "PERENNIAL WEED RATE TABLE" of the label booklet for Roundup Ultra. For some perennial species, repeat application may be required to eliminate crop competition throughout the growing season.

**Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" soybean seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.**

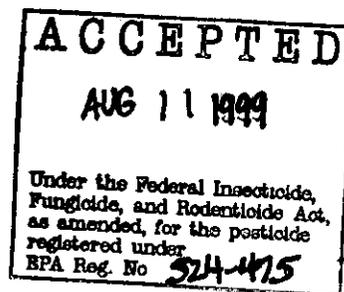
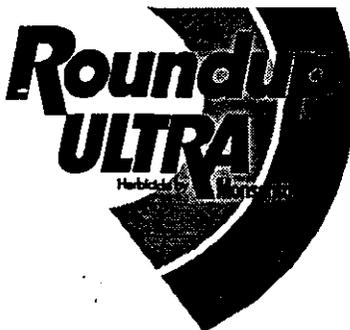
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ST. LOUIS, MISSOURI 63167

This supplemental label will expire September 1, 1999

# SUPPLEMENTAL LABELING

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"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

## FOR AERIAL APPLICATION IN CALIFORNIA ONLY.

Keep out of reach of children.

### CAUTION!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Roundup® is a registered trademark of Monsanto Company.

#### DIRECTIONS FOR USE

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

This label must be in the possession of the user at the time of the herbicide application.

See the "GENERAL INFORMATION" and "MIXING" sections of the label booklet for essential product information.

See the "CROPS" section of the label booklet for specific recommendations on the use of this product.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF THE SPRAY WITH FOLIAGE, GREEN STEMS, OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE

VEGETATION, SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Aerial applications of this product are allowed in the following situations:

1. In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.
2. In cotton, prior to harvest. Refer to the Roundup Ultra booklet for specific preharvest application instructions.

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application.

When applied as recommended under the conditions described, this product controls annual and perennial weeds listed in the label booklet.

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN FALLOW AND REDUCED TILLAGE SYSTEMS.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN COTTON, PRIOR TO HARVEST.

#### Aerial Equipment

Use the recommended rates of this product in 3 to 15 gallons of water per acre.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**AVOID DRIFT—DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS 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.**

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop, and/or near other desirable vegetation or annual crops.

1. Do not apply within 100 feet of all desirable vegetation or crop(s).
2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
3. Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
4. Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the air-stream and do not increase spray volume by increasing nozzle pressure. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

**Ensure uniform application—**To avoid streaking, uneven, or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. **PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE.** The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

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Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for Roundup Ultra herbicide before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

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<b>ACCEPTED</b>
<b>AUG 11 1999</b>
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. <b>524-475</b>

ROUNDUP ULTRA®  
Herbicide by Monsanto  
  
EPA Reg. No. 524-475

## FOR COTTON WITH THE ROUNDUP READY® GENE IN-CROP APPLICATIONS

Keep out of reach of children  
**CAUTION!**

In case of emergency involving this product, Call Collect, day or night, 314-694-4000.

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

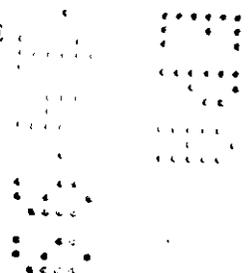
### DIRECTIONS FOR USE

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

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

### General Information

ATTENTION: MONSANTO 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, OR 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 VARIETY CONTAINS A PATENTED PROPRIETARY TRAIT.

**Application Instructions**

This product will control many troublesome weeds with over-the-top, post-directed, hooded sprayer, or preharvest applications in Roundup Ready cotton. See the APPLICATION EQUIPMENT AND TECHNIQUES section of the Roundup Ultra herbicide label booklet for more information.

**Maximum Allowable Yearly Rates**

Combined total per year for all applications	8 quarts/acre
Preplant, Preemergence applications	5 quarts/acre
Total over-the-top applications from cracking to layby	2.5 quarts/acre
Total precision post-directed or hooded applications through layby	2 quarts/acre
Maximum preharvest application rate	2 quarts/acre

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 16-48 ounces/acre of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product 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.

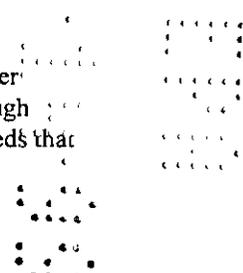
**There are no rotational crop restrictions following applications of this product.**

**Over-the-top applications:** Up to 2.5 quarts per sprayed acre of this product may be applied by aerial or ground broadcast application equipment postemergence to Roundup Ready cotton from the ground cracking stage until layby. The **Annual and Perennial Weeds Rate Tables** in the label booklet for Roundup herbicide should be used to determine application rate. Any single over-the-top application should not exceed 2 quart per sprayed acre. Sequential applications of this product must be at least 7 days apart.

**With ground broadcast equipment,** apply this product 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 this product in 3 to 15 gallons of water 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.

**Post-directed or hooded applications:** In addition to the over-the-top applications, up to 2 quarts per sprayed acre may be applied as a post-directed or hooded application to Roundup Ready cotton through layby. These application methods may be preferred when there is a need to direct the spray onto weeds that



are growing under the crop canopy. Equipment should be used which directs the spray into the lower crop canopy so that weeds in the row are covered. For best results, make applications while weeds are small (less than 3 inches). Sequential in-crop applications must be at least 7 days apart from any other in-crop application of this product.

**ATTENTION: USE OF ROUNDUP ULTRA 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 THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN UNANTICIPATED RESULTS INCLUDING YIELD LOSS.**

**Weeds controlled.** For specific rates of application and instructions for control of various annual and perennial weeds, refer to the "ANNUAL and PERENNIAL WEEDS RATE TABLE" sections of the label booklet. Roundup Ultra herbicide applied at 1 to 2 quarts per acre will control or suppress the growth of the following perennial weeds and reduce crop competition: yellow and purple nutsedge, rhizome johnsongrass, common bermudagrass, silverleaf nightshade, trumpet creeper, and redvine. Fall preharvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control, or may cause crop injury and are not recommended for applications where the spray contacts the cotton plant.

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

**Preharvest applications:** This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton any time after layby up to 7 days prior to harvest. This product may be tank mixed with DEF<sup>TM</sup> 6, Folex<sup>TM</sup> or Prep<sup>TM</sup> to enhance cotton leaf drop. Allow a minimum of 7 days between final application and harvest. No more than 2 quarts of this product per acre may be applied preharvest (between layby and seven days prior to harvest). Do not apply more than 1 quart of this product per acre by air. NOTE: This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton. Do not apply Roundup Ultra herbicide preharvest to cotton grown for seed.

**Precautions/Restrictions:** The combined total application from crop emergence until harvest must not exceed 8 quarts per acre. Allow a minimum of 7 days between final application and harvest. Tank mixtures with other herbicides may result in reduced weed control, or may cause crop injury and are not recommended for applications where the spray contacts the cotton plant. Do not apply Roundup Ultra Herbicide preharvest to cotton grown for seed.

**Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. For uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin-run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.**

