AHERBICIDE

CAUTION!

•attice eye irritation. Harmful if INHALED

Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist.

[...]

Keep out of reach of children.

CAUTION! CAUTION!

• Hold eye open and rinse slowly and gently with water for 15 or more minutes. Remove contact lenses, if present, after the first 5 minutes continue rinsing eye.

[...]

Do not mix or use with any other herbicides or pesticides.

[...]

If you want more information.

EPA Registration No. 524-537.

This product is identified as Roundup Weather MAX Herbicide,

HERBICIDE

Specially formulated for Roundup Ready® crops

Select broad-spectrum weed control in Roundup Ready® crops. Non-selective, broad-spectrum weed control for many agricultural systems and horticulturists.

See label booklet for Complete Directions for Use.

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS). DESIRABLE PLANTS AND TREES, AS SEVERE INJURY OR DESTRUCTION COULD RESULT.

Herbicide for Roundup Ready® Crops

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to supplemental labeling under AGRICULTURAL USE REQUIREMENTS in the DEFICIENCIES AND USE SECTION for information about this product.

Non-Agricultural Use Requirements

The requirements in this last box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies only to agricultural systems and farmsteads where uses of this product are made to produce agricultural plants on farms, forests, nurseries or greenhouses. The requirements in this box apply to uses of this product that are NOT agricultural in nature.

Storage and Disposal

Proper pesticide storage and disposal are essentials to protect against exposure to people and the environment. This includes the use of only the pesticide product or product(s) and equipment designated by the WPS for use with this product.

In the event of a spill or equipment breakdown, refer to the label for instructions on how to handle the situation.

Check local regulations regarding proper disposal of pesticide containers. Do not reuse or refill this container. Triple rinse or pressure rinse (or equivalent) this container promptly after emptying. Then clean and dry the container.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application according to label directions. If liquids cannot be avoided, offer remaining product to contaminate water, foodstuffs, feed or seed by storage or disposal. Call (1-800-768-6387). If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, unless otherwise specified.

CONSUMER HANDLING AND DISPOSAL: Nonrefundable container. Do not reuse or refill this container. Triple rinse or pressure rinse (or equivalent) this container promptly after emptying. Then clean and dry the container. It is illegal to dispose of hazardous waste in the trash or to pour the contents of the container into sink or drain. Call (1-800-768-6387). If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, unless otherwise specified.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to supplemental labeling under AGRICULTURAL USE REQUIREMENTS in the DEFICIENCIES AND USE SECTION for information about this product.

Return Property Rinsed Container to Monsanto

...
Complete Directions for Use

EPA Reg. No. 524-537

GROUP 9 HERBICIDE
**Complete Directions for Use**

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, AS SEVERE INJURY OR DESTRUCTION COULD RESULT.

Herbicide for Roundup Ready® Crops

Selective broad-spectrum weed control in Roundup Ready® crops

Non-selective, broad-spectrum weed control for many agricultural systems and farmsteads

EPA Reg. No. 524-537
APPLICATION EQUIPMENT AND TECHNIQUES ............................................. 16
8.1 Aerial Application Equipment .......................................................... 16
8.2 Ground Application Equipment ....................................................... 22
8.3 Handheld and Backpack Sprayers ..................................................... 22
8.4 Selective Application Equipment ..................................................... 22
8.5 Injection Systems ......................................................................... 25
8.6 Controlled Droplet Applicator (CDA) ................................................. 25

ANNUAL AND PERENNIAL CROPS .................................................. 25
9.1 Cereal and Grain Crops ................................................................... 28
9.2 Corn ......................................................................................... 29
9.3 Cotton ....................................................................................... 32
9.4 Fallow Systems ............................................................................. 33
9.5 Grain Sorghum (Milo) ................................................................. 34
9.6 Herbs and Spices ........................................................................... 36
9.7 Oilseed Crops ................................................................................. 37
9.8 Soybean ....................................................................................... 38
9.9 Sugarcane ..................................................................................... 40
9.10 Vegetable Crops ........................................................................... 42
9.11 Miscellaneous Crops ..................................................................... 46

TREE, VINE, AND SHRUB CROPS ................................................. 47
10.1 Berry Crops .................................................................................. 50
10.2 Citrus Fruit Crops ........................................................................ 51
10.3 Pome Fruit Crops ......................................................................... 52
10.4 Stone Fruit Crops ........................................................................ 52
10.5 Tree Nut Crops ............................................................................. 53
10.6 Tropical and Subtropical Trees and Fruit Crops ............................. 53
10.7 Vine Crops .................................................................................... 54
10.8 Miscellaneous Tree Food Crops ...................................................... 54
10.9 Non-Food Tree Crops .................................................................. 54

PASTURE GRASSES, FORAGE LEGUMES AND RANGELAND .............. 55
11.1 Alfalfa, Clover and Other Forage Legumes ...................................... 55
11.2 Conservation Reserve Program (CRP) ............................................ 57
11.3 Grass Seed and Sod Production ...................................................... 58
11.4 Pastures ....................................................................................... 60
11.5 Rangeland .................................................................................... 61
1.0 INGREDIENTS

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine,
in the form of its potassium salt ................................................. 48.8%

OTHER INGREDIENTS: ................................................................. 51.2%

100.0%

*Contains 660 grams of the active ingredient glyphosate, in the form of its potassium
salt, per liter or 5.5 pounds per U.S. gallon, which is equivalent to 540 grams of the
acid, glyphosate, per liter or 4.5 pounds per U.S. gallon (39.8% by weight).

This product is protected by U.S. Patent No's. 5,668,085, RE 37,866 and 6,365,551.
Other Patents Pending. No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT,
CALL TOLL-FREE, 1-800-332-3111

2. IN CASE OF AN EMERGENCY INVOLVING THIS HERBICIDE PRODUCT, OR FOR
MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT,
(314)-694-4000

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children

CAUTION!

CAUSES MODERATE EYE IRRITATION

HARMFUL IF INHALED

Avoid contact with eyes, skin, or clothing
Avoid breathing vapor or spray mist
### First Aid

**Call a poison control center or doctor for treatment advice.**

<table>
<thead>
<tr>
<th><strong>If in Eyes</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</td>
<td></td>
</tr>
<tr>
<td>Remove contact lenses if present after the first 5 minutes then continue rinsing eye.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>If on Skin</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Take off contaminated clothing.</td>
<td></td>
</tr>
<tr>
<td>Rinse skin immediately with plenty of water for 15 to 20 minutes.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>If Inhaled</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Move person to fresh air.</td>
<td></td>
</tr>
<tr>
<td>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</td>
<td></td>
</tr>
</tbody>
</table>

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- You can also call **(314) 694-4000**, collect, day or night, for emergency medical treatment information.
- This product is identified as **Roundup WeatherMAX Herbicide, EPA Registration No. 524-537**.

### Environmental Hazards

**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 cleaning equipment or disposing of equipment wash waters and rinsate.**

### Physical or Chemical Hazards

Spray solutions of this product may be mixed, stored and applied using only stainless steel, fiberglass, plastic or plastic-lined steel containers.

**DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder’s torch, lighted cigarette or other ignition source, and cause serious personal injury.

### Directions for Use

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product may only be used in accordance with the Directions for Use on this label or in separately published supplemental labeling. Supplemental labeling can be obtained from your Authorized Monsanto Retailer or Monsanto Company Representative.
4.0 STORAGE AND DISPOSAL

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: See container label for container handling and disposal instructions and refilling limitations.

5.0 PRODUCT INFORMATION

Product Description: This product is a postemergence, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid. It may be applied using most standard industrial or field sprayers after dilution and thorough mixing with water or other carriers according to label directions. Do not add surfactants, additives containing surfactants, buffering agents or pH adjusting agents to the spray solution when Roundup WeatherMAX Herbicide is the only pesticide being applied unless otherwise directed. See the “MIXING” section of this label for instructions regarding other additives.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects are a gradual wilting and yellowing of the plant that advances to complete browning of aboveground growth and deterioration of underground plant parts. Effects are visible on most annual weeds within 2 to 4 days, but on most perennial weeds, effects might not be visible for 7 or more days after application. Extremely cool or cloudy weather following application could slow activity of this product and delay development of visual symptoms.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when this product is applied at late growth stages approaching maturity. Refer to the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear: coveralls, shoes plus socks and chemical-resistant gloves made of any waterproof material.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried.
WEEDS RATE SECTION,” and “WOODY BRUSH AND TREES RATE SECTION” for more information on controlling specific weeds.

Always use the higher product application rate within the given range when weed growth is heavy or dense, or when weeds are growing in an undisturbed (non-cultivated) area.

Reduced weed control could result when this product is applied to weeds that show signs of disease or insect damage, are heavily covered with dust, or are surviving under poor growing conditions.

Cultural Considerations: Reduced weed control could result when this product is applied to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to re-grow to the specified stage prior to application.

Rainfastness: Heavy rainfall soon after application could wash this product off of the foliage and a second application might then be required for adequate weed control.

Spray Coverage: For best results, spray coverage must be uniform and complete. Do not spray foliage to the point of runoff.

Mode of Action: The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to the formation of specific amino acids.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weed seeds in the soil will not be affected by this product and will continue to germinate. Plants arising from unattached underground rhizomes or rootstocks of perennials that have not yet emerged at the time of application will not be affected by this product and will continue to grow.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Maximum Application Rates: The maximum application or use rates stated throughout this label are given in units of volume (fluid ounces or quarts) of this product per acre. However, the maximum allowed application rates apply to this product combined with the use of any and all other herbicides containing the active ingredient glyphosate, whether applied separately or in a tank mixture, on a basis of total pounds of glyphosate (acid equivalents) per acre. If more than one glyphosate-containing product is applied to the same site within the same year, you must ensure that the total use of glyphosate (pounds acid equivalents) does not exceed the maximum allowed. See the “INGREDIENTS” section of this label for necessary product information.

Except as otherwise specified in a crop section of this label, the combined total application of this product on a site must not exceed 5.3 quarts (6 pounds of glyphosate acid) per acre per year. For applications on non-crop sites, or on tree, vine or shrub crop production sites, the combined total application of this product must not exceed 7 quarts (8 pounds of glyphosate acid) per acre per year.

NOTE: Use of this product in any manner not consistent with this label could result in injury to persons, animals or crops, or have other unintended consequences.

6.0 WEED RESISTANCE MANAGEMENT

Glyphosate, the active ingredient in this product, is a Group 9 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population can contain plants naturally resistant to Group 9 herbicides. Weed species resistant to Group 9 herbicides can be effectively managed by using another herbicide from a different Group or by using other cultural or mechanical methods.

6.1 Weed Management Practices

To minimize the occurrence of glyphosate-resistant biotypes, observe the following weed management practices:

• Scout your fields before and after herbicide application.
• Start with a clean field, using either a burndown herbicide application or tillage.
• Control weeds early when they are relatively small.
• Incorporate other herbicides (e.g., a selective and/or a residual herbicide) and cultural practices (e.g., tillage or crop rotation) into your weed management program, where appropriate.
• One method for adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready crops.
• Use the application rate for the most difficult to control weed in your field. Avoid tank mixtures with other herbicides that reduce the efficacy of this product (through antagonism) or with ones that encourage application of this product at rates less than those specified on this label.
• Control weed escapes and prevent weeds from setting seeds.
• Clean equipment before moving from field to field to minimize the spread of weed seed or plant parts.
• Use new commercial seed that is as free of weed seed as possible.
• Report any incidence of repeated non-performance of this product on a particular weed to your Monsanto Company representative, local retailer, or county extension agent.
6.2 Management of Glyphosate-Resistant Biotypes

Appropriate testing is needed to determine if a weed is resistant to glyphosate. Call 1-800-ROUNDUP (1-800-768-6387) or contact your Monsanto Company representative to determine if resistance in any particular weed biotype has been confirmed in your area, or visit on the Internet www.weedresistancemanagement.com or www.weedscience.org. For more information, see the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label.

Since the occurrence of new glyphosate-resistant weeds cannot be determined until after product use and scientific confirmation, Monsanto Company is not responsible for any losses that result from the failure of this product to control glyphosate-resistant weed biotypes.

The following good agronomic practices can reduce the spread of confirmed glyphosate-resistant biotypes:

- If a naturally occurring resistant biotype is present in your field, apply this product in a tank-mix or sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g., crop rotation or tillage) can also be used as appropriate.
- One method for adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready crops.
- Scout fields after herbicide application and control weed escapes, including resistant biotypes, before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.

7.0 MIXING

Spray solutions of this product may be mixed, stored and applied using only clean stainless steel, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.

Eliminate any risk of siphoning the contents of the tank back into the carrier source while mixing. Use approved anti-back-siphoning devices where required by State or local regulations.

A 50-mesh nozzle screen or line strainer on the spray equipment is sufficient.

Clean sprayer parts promptly after using this product by thoroughly flushing with water.

7.1 Mixing with Water

PRODUCT PERFORMANCE CAN BE SIGNIFICANTLY REDUCED IF WATER CONTAINING SOIL SEDIMENT IS USED AS CARRIER. DO NOT MIX THIS PRODUCT WITH WATER FROM PONDS OR DITCHES THAT IS VISIBLY MUDDY OR MURKY.

This product mixes readily with water. Mix spray solutions of this product as follows. Begin filling the mixing tank or spray tank with clean water. Add the required amount of this product near the end of the filling process and mix gently. Foaming of the spray solution can occur during mixing. To prevent or minimize foaming, mix gently, terminate bypass and return lines at the bottom of the tank, and, if necessary, use an anti-foam or defoaming agent.

7.2 Tank Mixtures

This product does not provide residual weed control. This product may be tank-mixed with other herbicides to provide residual weed control, a broader weed control spectrum or an alternate mode of action. Always read and follow label directions for all products in the tank mixture.

Some tank-mix products have the potential to cause crop injury under certain conditions, at certain growth stages and/or under other circumstances. Read the label of all products to be used in the tank mixture prior to use to determine the potential for crop injury.

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers could result in reduced weed control or crop injury. Monsanto Company has not tested all tank-mix product formulations for compatibility, antagonism or reduction in product performance. Buyer and all users are responsible for any and all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified on this label, or on separate supplemental labeling or Fact Sheets published for this product.

When a tank-mix with a generic active ingredient, such as 2,4-D, atrazine, dicamba, diuron, or pendimethalin is listed on this label, the user is responsible for ensuring that the specific application being made is included on the label of the product being used in the mix.

Refer to all individual product labels, supplemental labeling and Fact Sheets for all products in the tank mixture, and observe all precautions and limitations on the label, including application timing restrictions, soil restrictions, minimum
re-cropping interval and rotational guidelines. Use according to the most restrictive precautionary statements for each product in the tank mixture.

Always predetermine the compatibility of all tank-mix products together in the carrier by mixing small proportional quantities in advance.

For best results, apply tank mixtures with this product at a minimum spray volume rate of 10 gallons per acre.

### 7.4 Mixing for Handheld Sprayers

Prepare the desired spray volume by mixing the amount of this product indicated on the following table in water:

#### Spray Solution

<table>
<thead>
<tr>
<th>Desired Volume</th>
<th>Amount of Roundup WeatherMAX Herbicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gal</td>
<td>0.5 oz 1 oz 1.3 oz 2 oz 5 oz 9 oz</td>
</tr>
<tr>
<td>25 gal</td>
<td>0.8 pt 0.7 qt 1 qt 1.5 qt 4 qt 7 qt</td>
</tr>
<tr>
<td>100 gal</td>
<td>1.6 qt 2.8 qt 1 gal 1.5 gal 4 gal 7 gal</td>
</tr>
</tbody>
</table>

2 tablespoons = 1 fluid ounce

For backpack sprayers, consider mixing the appropriate amount of this product with water in a larger container and then filling the sprayer from the larger container.

### 7.5 Ammonium Sulfate

The addition of 1 to 2 percent dry ammonium sulfate by weight, or 8.5 to 17 pounds per 100 gallons of water, could increase the performance of this product on annual and perennial weeds, particularly under hard water conditions, drought conditions or when tank-mixed with certain residual herbicides. An equivalent amount of a liquid formulation of ammonium sulfate may also be used. Ensure that dry ammonium sulfate is completely dissolved in the tank before adding other products.

NOTE: When using ammonium sulfate, apply this product at rates directed on this label. Lower rates will result in reduced performance.

### 7.6 Colorants and Dyes

Colorants and marking dyes may be added to spray solutions of this product; however, they can reduce product performance of this product. Use colorants and dyes according to the manufacturer’s directions.

### 7.7 Drift Reduction Additives

Drift reduction additives may be used with all equipment types, except wiper applicators, sponge bars and controlled droplet applicators (CDA). When a drift reduction additive is
used, read and carefully observe all precautions, limitations and all other information on the product label. Use of drift reduction additives can affect spray coverage, which could reduce the performance of this product.

8.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

Aerial Application Equipment—Fixed-wing and helicopter

Ground Application Equipment—Boom or boomless systems, pull-type sprayers, floaters, pick-up sprayers, spray coups and other ground broadcast application equipment

Handheld and Backpack Sprayers—Backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers*, lances and other handheld and motorized spray equipment used to direct the spray onto weed foliage

*This product is not registered in California or Arizona for use in mistblowers.

Selective Application Equipment—Shielded and hooded sprayers, wiper applicators and sponge bars

Injection Systems—Aerial or ground injection sprayers

Controlled Droplet Applicator (CDA)—Handheld or boom-mounted applicators that produce a spray consisting of a narrow range of droplet sizes

APPLY SPRAY SOLUTIONS OF THIS PRODUCT USING PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING THE DESIRED VOLUMES.

8.1 Aerial Application Equipment

Unless otherwise prohibited, all applications of this product described on this label may be made using aerial application equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this label and on separate supplemental labeling published for this product.

DO NOT APPLY THIS PRODUCT USING AERIAL APPLICATION EQUIPMENT EXCEPT UNDER CONDITIONS SPECIFIED ON THIS LABEL.

Apply this product at the appropriate rate in 3 to 15 gallons of water per acre unless otherwise directed on this label or on separate supplemental labeling or Fact Sheet published for this product. Unless otherwise directed, the maximum single application rate of this product is 44 fluid ounces per acre when using aerial application equipment.

Refer to the individual use area sections of this label for application rates, spray volumes and additional directions for use.

FOR AERIAL APPLICATION IN ARKANSAS AND CALIFORNIA, OR SPECIFIC COUNTIES THEREIN, REFER TO THE LIMITATIONS FOR AERIAL APPLICATION OF THIS PRODUCT IN THAT STATE OR COUNTY LISTED IN THIS SECTION FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation, as minute quantities of this herbicide can cause severe damage or destruction to the crop, plants or other areas on which application was not intended.

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial application onto agricultural field crops.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.

2. Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they must be followed.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if the application is made improperly or under unfavorable environmental conditions (see the “Wind,” “Temperature and Humidity,” and “Temperature Inversions” sections of this label).

Controlling Droplet Size

- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.

- **Pressure:** Use the lower spray pressure listed for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

- **Number of nozzles:** Use the minimum number of nozzles that provide uniform coverage.
Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

Apply this product only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas). Avoid direct application to any body of water.

Aircraft Maintenance

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 COULD RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) that meets aerospace specification MIL-C-38413 can help prevent corrosion.

State Specific Limitations on Aerial Application

LIMITATIONS ON AERIAL APPLICATION IN CALIFORNIA ONLY, INCLUDING FRESNO COUNTY, CALIFORNIA

AVOID DRIFT – DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT CAN CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH APPLICATION WAS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Use the following guidelines when making an aerial application 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 this product within 100 feet of all desirable vegetation or crop(s).
2. If winds up to 5 miles per hour are blowing toward desirable vegetation or crop(s), do not apply this product 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) could require buffer zones in excess of 500 feet.

Nozzle orientation: Orienting nozzles so that the spray is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle type: Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length could further reduce drift without reducing swath width.

Application height: Application must be made at a height of 10 feet or less above the top of the largest plants, unless a greater height is required for aircraft safety. Making the application at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swath Adjustment

When an application is made with a crosswind present, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase the swath adjustment distance with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest at wind speeds of between 2 and 10 miles per hour. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid application when wind speeds are below 2 miles per hour due to variable wind direction and high inversion potential.

NOTE: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set application equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversion

Do not apply during a temperature inversion because drift potential is high under these conditions. Temperature inversions restrict vertical air mixing, which causes small droplets to remain suspended in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions.
Demonstration of performance at Fresno County Agricultural Commissioner approved fly-ins constitutes such documentation, or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.

Applications at Night – Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner.

To report known or suspected misuse of this product, call 1-800-332-3111.

For additional information on the proper aerial application of this product, call 916-784-1718.

LIMITATIONS ON AERIAL APPLICATION IN ARKANSAS ONLY

AVOID DRIFT. DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES. DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Apply this product at the appropriate rate in 3 to 15 gallons of water per acre.

Use sufficient carrier volume and appropriate equipment set-up to form droplets large enough to avoid drift potential. Coarse droplets in the 300 to 500 (VMD) micron range have a lower drift potential.

Applications are typically to be made with the nozzle release point at 8 to 15 feet above the top of the target plants unless a greater height is required for aircraft safety.

The distance of the outermost nozzles on the boom must not exceed 75 percent of the length of the wingspan or rotor. In many cases, reducing this distance to 65 percent of the length of the wingspan or rotor will improve drift control without affecting the swath width.

Nozzles must always discharge backward parallel with the air stream and never discharge downwards more than 45 degrees on fixed wing aircraft or forward of the prevailing airflow on rotary winged aircraft. Avoid the use of nozzles with wide-angle discharge.

Do not apply this product when winds are in excess of 10 miles per hour.

Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves. These conditions can occur when wind speeds are less than 2 miles per hour.
Selective equipment must be capable of preventing all contact of the herbicide solution with the crop and operated without spray mist escape, leakage, or dripping of the herbicide solution onto the crop.

AVOID CONTACT OF THIS HERBICIDE WITH DESIRABLE VEGETATION. Contact of this product with desirable vegetation could result in unwanted plant damage or destruction.

### Shielded and Hooded Sprayers

This product, when applied at rates specified on this label using a shielded or hooded sprayer according to the directions described in this section, will control the weeds listed in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label.

A shielded sprayer directs the herbicide solution to the target weeds while protecting desirable vegetation from being contacted by the herbicide spray with an impervious material or shield. Use nozzles that provide uniform coverage within the application area. Keep shields on these sprayers properly adjusted to protect desirable vegetation.

A hooded sprayer is a type of shielded sprayer where the spray pattern is fully enclosed, including the top, sides, front and back, thereby shielding the crop from the spray solution. Adjust the shields on these sprayers to protect desirable vegetation. When applying around crops grown on raised beds, ensure that the hood is capable of completely enclosing the spray pattern. If necessary, extend the front and rear flaps of the hooded sprayer downward to reach the ground in deep furrows.

USE EXTREME CARE TO AVOID CONTACT OF SPRAY SOLUTIONS OF THIS PRODUCT WITH DESIRABLE VEGETATION. Contact of this product in any manner to any vegetation to which application is not intended could cause damage. To the extent consistent with applicable law, such damage shall be the sole responsibility of the applicator.

A hooded sprayer must be configured and operated in a manner that minimizes bouncing and avoids raising the hood up off the ground surface at any time. If the hood is raised, spray particles can escape and come into contact with the crop, causing damage to or destruction of the crop. Avoid operating this equipment on rough or sloping terrain where the spray hood is likely to rise up off the ground surface.

Use hoods designed to minimize excessive dripping or runoff down the inside of the hood, such as a single, low pressure, low-drift, flat-fan nozzle with an 80- to 95-degree spray angle positioned at the top center of the hood, with a spray volume of 20 to 30 gallons per acre.

The following procedures will reduce the potential for crop injury when using a hooded sprayer:

- Spray hood must be operated on the ground or skimming across the ground surface.
• Leave at least an 8-inch untreated strip over the drill row. (For example, if the crop row width is 38 inches, make the maximum width of the spray hood 30 inches.)
• Operate at a ground speed of no greater than 5 miles per hour to avoid bouncing of the spray hood.
• Apply when wind speed is 10 miles per hour or less.
• Use low-drift nozzles that provide uniform coverage within the application area.

Crop injury can occur when application is made to foliage of weeds that come into direct contact with the crop. Do not apply this product when crop leaves are growing in direct contact with weeds. Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation can result in discoloration, stunting or destruction.

Wiper Applicator
A wiper applicator is a device that physically wipes this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation.

Adjust the height of the wiper applicator to ensure adequate contact with weeds and so that the wiper contact point is at least 2 inches above the desirable vegetation. Better results can be obtained when more of the weed is exposed to the herbicide solution and weeds are a minimum of 6 inches above the desirable vegetation. Weeds that do not come into contact with the herbicide solution will not be affected. Poor contact can occur when weeds are growing in dense clumps, when operating in an area of severe weed infestation or when weed height varies dramatically. In these situations, more than one application of this product might be necessary.

Operate wiper applicators at a ground speed of no greater than 5 miles per hour. Performance in areas of heavy weed infestation can be improved by reducing speed, which will provide more time for re-saturation of the wiper with the herbicide solution. Better results can be obtained when two applications are made in opposite directions.

Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation can result in discoloration, stunting or destruction. Avoid leakage or dripping onto desirable vegetation. Keep wiper surfaces clean. Be aware that on sloping ground the herbicide solution can migrate to one side, causing dripping on the lower end and drying of the wiper on the upper end of the applicator.

Do not apply this product using a wiper applicator when weeds are wet.

Mix only the amount of this product that will be used during a 1-day period, as reduced product performance can result from the use of solutions held in storage. Clean wiper parts promptly after using this product by thoroughly flushing with water.

Do not add surfactant to the herbicide solution when using a wiper applicator.

For Rope and Sponge Wick Applicators—use solutions ranging from 33 to 75 percent of this product in water.

For Panel Applicators—use solutions ranging from 33 to 100 percent (undiluted) of this product in water.

8.5 Injection Systems
This product may be used in aerial and ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the concentrate of other products for use in injection systems.

8.6 Controlled Droplet Applicator (CDA)
The amount of this product applied per acre using a controlled droplet applicator (CDA) must be no less than the rate specified on this label for application using conventional broadcast application equipment. Apply the appropriate amount of this product in 2 to 15 gallons of water per acre when using a vehicle-mounted CDA.

For control of annual weeds with a handheld CDA, apply a 20-percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 miles per hour (1 quart per acre). For the control of perennial weeds, apply a 20- to 30-percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mile per hour (2 to 3 quarts per acre).

A controlled droplet applicator produces a spray pattern that is not easily visible. Use extreme care to avoid spray or drift from contacting the foliage or any other green tissue of desirable vegetation, as plant damage or destruction could result.

9.0 ANNUAL AND PERENNIAL CROPS
This section provides directions for use of this product that apply to all crops listed in the following sections. See the individual crop sections for specific use instructions, preharvest intervals, and additional precautions and restrictions.

See the “Roundup Ready Crops” section of this label, or separately published supplemental labeling for this product, for directions for use in Roundup Ready crops.

Types of Application: Chemical Fallow; Preplant Fallow Beds; Preplant; At-Planting; Preemergence; Hooded Sprayer in Row Middles; Shielded Sprayer in Row Middles; Wiper Applicator in Row Middles; Post-Harvest
USE INSTRUCTIONS: Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting, or preemergence to annual and perennial crops listed on this label, except where specifically limited. For any crop not listed on this label, application must be made a minimum of 30 days prior to planting. Unless otherwise directed, apply this product according to the rates listed in the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH AND TREES RATE SECTION” of this label. Application rates specified on this label for the control of tough weeds, or those specified on separate supplemental labeling for this product, supersede the rates in the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH AND TREES RATE SECTION” of this label. Additional information on the control of tough weeds can be found on Fact Sheets published for this product.

Application of this product may be repeated as needed up to a maximum of 5.3 quarts per acre per year.

Hooded sprayers and wiper applicators capable of preventing all contact of the herbicide solution with the crop may be used in mulched or unmulched row middles after crop establishment. Wiper applicators may be used over the top of crops to control tall weeds only when specifically directed in the individual crop sections that follow. Refer to the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for information regarding the potential for crop injury using selective application equipment. Crop injury is possible with these methods of application and shall be the sole responsibility of the applicator.

Spot treatment application of this product for weed control in a cropping system may be made only when specifically directed in the individual crop sections that follow.

Unless otherwise prohibited, all applications of this product described in the sections that follow may be made using aerial application equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this label and on all supplemental labeling published for this product. Refer to the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for information on aerial application and procedures for avoiding spray drift that could cause injury to any vegetation not intended for application. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

TANK MIXTURES: This product may be tank-mixed with other herbicides to provide residual weed control, a broader weed control spectrum or an alternate mode of action. Always read and follow label directions for all products in the tank mixture. Use all products according to rates and timing specified on the label. Some tank-mix products have the potential to cause crop injury. Read the label for all products in the tank mixture prior to use to determine the potential for crop injury. Always predetermine the compatibility of tank-mix products together in the carrier by mixing small proportional quantities in advance. Mixing other products with this herbicide in the spray tank can cause incompatibility, antagonism, or a reduction in the efficacy of this product. Monsanto Company has not tested all product formulations for compatibility or performance in a tank-mix. Buyer and all users are responsible for any and all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not specifically identified on this label or on separate supplemental labeling or Fact Sheets for this product. See the “MIXING” section of this label for more information on tank mixtures.

PRECAUTIONS: Avoid contact of this herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops, as severe crop injury or destruction could result. Transplant seedlings coming into contact with freshly sprayed weeds could result in significant crop injury. When making preemergence applications, application must be made before crop emergence to avoid severe crop injury. Broadcast application of this product at emergence will result in injury or death of emerged seedlings. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. In crops where spot treatment is allowed, the crop sprayed with this product will be killed along with the weeds. Take care not to spray or allow spray to drift outside the target area in order to avoid unwanted crop destruction. See the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for additional information.

Preharvest application on crops grown for seed could result in a reduction in germination or vigor. To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on any crop grown for seed.

RESTRICTIONS: Observe the maximum application rates stated throughout this label. Maximum application rates apply to the use of this product combined with the use of any and all other herbicides containing glyphosate as the active ingredient, whether applied separately or as mixtures. Calculate the application rates (glyphosate acid equivalents) and ensure that the total use of this and other glyphosate-containing products does not exceed the stated maximum rate. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

Unless otherwise directed on this label, application using selective equipment, including wiper applicators and hooded sprayers, must be made a minimum of 14 days prior to harvest. In crops where spot treatment is allowed, do not apply this product to more than 10 percent of the total field to be harvested. Post-harvest and fallow application must be made a minimum of 30 days prior to the planting of any crop not listed on this label. Do not harvest or feed vegetation from an area for 8 weeks following broadcast postemergence application, unless otherwise directed.
When applying this product as a tank mixture with one or more products, refer to each individual tank-mix product label for restrictions and apply the tank mixture in accordance with the most restrictive statements for each product in the tank mixture.

9.1 Cereal and Grain Crops

**LABELED CROPS:** Barley; Buckwheat; Millet (pearl, proso); Oats; Rice; Rye; Quinoa; Teff; Teosinte; Triticale; Wheat (all types); Wild Rice

**TYPES OF APPLICATION:** Those listed in Section 9.0, plus Red Rice Control Prior to Planting Rice; Spot Treatment (except rice); Control of Barnyardgrass in Rice Using Renovation Treatment (California only); Wiper Applicator (feed barley and wheat only); Preharvest (feed barley and wheat only)

**Preplant, At-Planting, Preemergence**

**USE INSTRUCTIONS:** This product may be applied before, during or after the planting of cereal crops, but prior to crop emergence.

**Red Rice Control Prior to Planting Rice**

**USE INSTRUCTIONS:** Flush fields prior to application to obtain uniform germination and stand of red rice and then apply 32 fluid ounces of this product in 5 to 10 gallons of water per acre when the majority of the red rice plants are at the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves might only be partially controlled. Avoid spraying during conditions of low humidity, as reduced control of red rice could result.

**RESTRICTIONS:** Do not apply this product to rice fields or levees when fields contain floodwater. Do not flood fields for a minimum of 8 days following application.

**Spot Treatment (Except Rice)**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in cereal crops, except rice. Apply before heading in small grains.

**RESTRICTIONS:** Do not apply this product to more than 10 percent of the total field area to be harvested.

**Control of Barnyardgrass in Rice Using Renovation Treatment (California Only)**

**THIS APPLICATION FOR USE IN CALIFORNIA ONLY**

**USE INSTRUCTIONS:** This product may be applied as a renovation treatment in rice crops to control barnyardgrass (Echinochola crus-galli) infestations using ground broadcast application equipment or a handheld sprayer. Renovation is defined as an herbicide application that will result in crop and weed destruction in an entire field or contiguous area within a field.

**RESTRICTIONS:** The rice straw and stubble from the application area, including a 25-foot buffer zone on all sides, may not be used for animal bedding, grazing, or any other feed purposes. DO NOT make this application using aerial application equipment.

**Wiper Applicator (Feed Barley and Wheat Only)**

**USE INSTRUCTIONS:** This product may be applied over the top of feed barley and wheat using a wiper applicator to control tall weeds. To control common rye or cereal rye, apply after weeds have headed and achieved maximum growth. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

**RESTRICTIONS:** Allow a minimum of 35 days between application and harvest. Do not use roller applicator.

**Preharvest (Feed Barley and Wheat Only)**

**USE INSTRUCTIONS:** This product provides weed control when applied prior to harvest of feed barley or wheat. For feed barley, apply after the hard-dough stage when grain moisture is 20 percent or less. For wheat, apply after the hard-dough stage when grain moisture is 30 percent or less. Stubble may be grazed immediately after harvest. Apply this product in 10 to 20 gallons of water per acre when using ground application equipment and in 3 to 10 gallons of water per acre when using aerial application equipment.

**RESTRICTIONS:** Do not apply more than 22 fluid ounces of this product per acre for preharvest application. Allow a minimum of 7 days between application and harvest or grazing.

**Post-Harvest**

**USE INSTRUCTIONS:** This product may be applied for weed control after harvest of cereal crops. Higher rates might be required to control large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for weed control following harvest of cereal crops. Read and follow label directions for all products in the tank mixture.

**RESTRICTIONS:** Allow a minimum of 7 days between application and harvest or feeding of vegetation within the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

9.2 Corn

**TYPES OF CORN:** Field corn; Popcorn; Seed corn; Silage corn; Sweet corn

**TYPES OF APPLICATION:** Those listed in Section 9.0, plus Spot Treatment; Preharvest
For directions for use with field corn hybrids with Roundup Ready 2 Technology (including Roundup Ready Corn 2 and field corn products displaying the Roundup Ready 2 Technology logo), or with sweet corn hybrids with Roundup Ready 2 Technology (including Roundup Ready Sweet Corn and sweet corn products displaying the Roundup Ready 2 Technology logo), see the “ROUNDUP READY CROPS” section of this label.

**Preplant, At-Planting, Preemergence**

**USE INSTRUCTIONS:** This product may be applied alone or in a tank-mix before, during or after planting corn, but prior to crop emergence.

**TANK MIXTURES:** This product may be tank-mixed with the following products. Ensure that the product used is labeled for application prior to the planting or the emergence of the type of corn crop being grown. Read and follow label directions for all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water, or 10 to 60 gallons of nitrogen solution, per acre.

- Aim EC; Axiom; Balance Flexx; Banvel; Bicep MAGNUM; Bicep II MAGNUM; Bicep Lite II MAGNUM; Bullet; Cinch; Cinch ATZ; Clarity; Corvus; Degree; Degree Xtra; Distinct; Dual MAGNUM; Dual II MAGNUM; Frontier; FullTime; Guardsman; Guardsman MAX; Harness; Harness Xtra; Harness Xtra 5.6L; Hornet; Keystone; Keystone LA; Lariat; Leadoff; Linex; Lorox; Marksmen; Micro-Tech; Outlook; Prowl; Python; Python II; Radius; Resolve; Resource; Shark; Sharpen; Stalwart; Stalwart C; Stalwart Xtra; Surpass; TopNotch; TripleFLEX; 2,4-D; acetochlor; alachlor; atrazine; carfentrazone-ethyl; clopyralid; dicamba; diflufenzopyr; dimethenamid; dimethenamid-p; flufenacet; flumetsulam; flumiclorac pentyl ester; isoxaflutole; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; rimsulfuron; saflufenacil; simazine; thiencarbazone-methyl

For tough-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 22 fluid ounces of this product per acre in these tank mixtures. For other annual weeds listed on this label, apply 16 to 22 fluid ounces of this product per acre when weeds are less than 6 inches tall and 22 to 32 fluid ounces per acre when weeds are over 6 inches tall. When using a nitrogen solution as the carrier, a higher application rate might be needed for acceptable weed control.

**RESTRICTIONS:** Application of 2,4-D or dicamba must be made a minimum of 7 days prior to planting corn.

In Southern states, do not apply this product in nitrogen solutions to tough-to-control grasses, such as barnyardgrass, fall panicum, broadleaf signalgrass, annual ryegrass and any perennial weeds. This area includes Illinois and Indiana south of Route 50, Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.

**Hooded Sprayer**

**USE INSTRUCTIONS:** This product may be applied using a hooded sprayer for weed control in between rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instructions on the use of hooded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

**RESTRICTIONS:** Corn must be at least 12 inches tall, measured without extending leaves. Do not apply more than 22 fluid ounces of this product per acre for each hooded sprayer application and no more than 64 fluid ounces per acre per year total.

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment prior to silking of corn.

**RESTRICTIONS:** Do not apply this product to more than 10 percent of the total field area to be harvested.

**Preharvest**

**USE INSTRUCTIONS:** Apply up to 64 fluid ounces of this product per acre when using ground application equipment, or up to 44 fluid ounces per acre when using aerial application equipment, when kernel fill is complete and the corn is physiologically mature (black layer formed) and grain moisture is 35 percent or less.

**RESTRICTIONS:** Allow a minimum of 7 days between application and harvest.

**Post-Harvest**

**USE INSTRUCTIONS:** This product may be applied for weed control after harvest of corn. Higher rates might be required to control large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in corn. Read and follow label directions for all products in the tank mixture.

**RESTRICTIONS:** Allow a minimum of 7 days between application and harvest or feeding of vegetation within the application area. Application of this product must be made a minimum of 30 days prior to planting any crop not listed on this label.
9.3 Cotton

TYPES OF APPLICATION: Those listed in Section 9.0, plus Selective Equipment; Spot Treatment; Preharvest

For directions for use with Roundup Ready cotton and Roundup Ready Flex cotton, see the “ROUNDUP READY CROPS” section of this label.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting cotton, but prior to crop emergence.

TANK MIXTURES: This product may be tank-mixed with 2,4-D or Clarity and applied prior to planting only. This product may also be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to planting or the emergence of cotton. Read and follow label directions for all products used in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water per acre.

Selective Equipment

USE INSTRUCTIONS: This product may be applied using a hooded or shielded sprayer, or over the top of cotton using a wiper applicator to control tall weeds. See additional instructions on the use of this selective equipment in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest.

Spot Treatment

USE INSTRUCTIONS: This product may be applied in cotton as a spot treatment prior to boll opening.

RESTRICTIONS: Do not apply this product to more than 10 percent of the total field area to be harvested.

Preharvest

USE INSTRUCTIONS: This product provides weed control and cotton re-growth inhibition when applied prior to harvest. For weed control, apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. For cotton re-growth inhibition, apply 16 to 44 fluid ounces of this product per acre. Make preharvest application only after sufficient bolls have developed to produce the desired yield. Application made prior to this time could affect maximum yield potential.

TANK MIXTURES: This product may be tank-mixed with DEF 6, Dropp, Folex, Ginstar, or Prep to enhance cotton leaf-drop. Read and follow label directions for all products used in the tank mixture.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest. DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO COTTON.

9.4 Fallow Systems

This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

TYPES OF APPLICATION: Chemical Fallow; Preplant Fallow Beds; Aid-to-Tillage

Chemical Fallow

USE INSTRUCTIONS: This product may be used as a substitute for tillage to control annual weeds in fallow fields. Broadcast or spot treatment application will also control or suppress many perennial weeds in fallow fields. Tank-mix this product with 2,4-D or dicamba for a broader weed control spectrum. Aerial application of up to 44 fluid ounces of this product per acre may be made onto fallow fields where there is sufficient buffer to prevent injury due to drift onto adjacent crops.

PRECAUTIONS: Some crop injury could occur if dicamba is applied within 45 days of planting.

Preplant Fallow Beds

USE INSTRUCTIONS: This product may be applied before, during or after planting cotton, but prior to crop emergence.

TANK MIXTURES: Apply 8 fluid ounces of this product, plus 2 to 3 fluid ounces of Goal 2XL, per acre to control the following weeds up to the maximum height or length indicated: 3 inches—common cheeseweed, chickweed, groundsel; 6 inches—London rocket, shepherd’s-purse.

Apply 11 fluid ounces of this product, plus 2 to 3 fluid ounces of Goal 2XL, per acre to control the following weeds up to the maximum height or length indicated: 6 inches—common cheeseweed, groundsel, marestail (Conyza canadensis); 12 inches—chickweed, London rocket, shepherd’s-purse.
Aid-to-Tillage

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in fallow systems, or preplant to crops listed on this label, to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre before weeds are 6 inches in height. Application must be followed by conventional tillage no later than 15 days after application and before re-growth occurs. Allow a minimum of 1 day after application before tillage.

PRECAUTIONS: Tank mixtures with residual herbicides could result in reduced performance of this product.

9.5 Grain Sorghum (Milo)

TYPES OF APPLICATION: Those listed in Section 9.0, plus Spot Treatment; Wiper Applicator; Preharvest

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied alone or in a tank mixture before, during or after planting grain sorghum, but prior to crop emergence.

TANK MIXTURES: This product may be tank-mixed with the following products. Ensure that the product used is labeled for application prior to planting or emergence of grain sorghum. Read and follow label directions for all products used in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water, or 10 to 60 gallons of nitrogen solution, per acre.

- Bicep II MAGNUM; Bullet; Dual II MAGNUM; INTRO; Lariat, Micro-Tech; Sharpen; Warrant; acetochlor; alachlor; atrazine; metolachlor; s-metolachlor; saflufenacil

For tough-to-control annual weeds, such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 22 fluid ounces of this product per acre in a tank mixture with one of the products listed here.

For control of other annual weeds listed on this label, apply 16 to 22 fluid ounces of this product per acre when weeds are less than 6 inches tall and 22 to 32 fluid ounces per acre when weeds are over 6 inches tall. When using a nitrogen solution as the carrier, the application rate might need to be increased to achieve adequate weed control.

Spot Treatment, Wiper Applicator

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum before heading. This product may also be applied over the top of grain sorghum using a wiper applicator to control or suppress tall weeds. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: For spot treatment, do not apply this product to more than 10 percent of the total field area to be harvested.

When applied using a wiper applicator, allow a minimum of 40 days between application and harvest. Do not use a roller applicator. Do not feed or graze grain sorghum fodder or ensile vegetation within the application area.

Hooded Sprayer

USE INSTRUCTIONS: This product may be applied using a hooded sprayer for weed control in between rows of grain sorghum. Make application before grain sorghum sends tillers between the drill rows. If tillers are sprayed with this herbicide, the main plant could be damaged or destroyed. Contact of this product in any manner with any vegetation to which application is not intended could cause damage. Such damage shall be the sole responsibility of the applicator. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instructions on the use of hooded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Grain sorghum must be at least 12 inches tall, measured without extending leaves. Do not graze or feed grain sorghum forage or fodder following application of this product using a hooded sprayer. Do not apply more than 22 fluid ounces of this product per acre per hooded sprayer application and no more than 64 fluid ounces per acre per year total.

Preharvest

USE INSTRUCTIONS: Apply up to 44 fluid ounces of this product per acre after sorghum grain has reached 30 percent moisture or less. As with other herbicides that cause sudden plant death, avoid preharvest application of this product to milo infected with charcoal rot as lodging can occur.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest of grain sorghum. Preharvest application of this product on grain sorghum (milo) is not registered for use in California.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of grain sorghum. Higher application rates might be required to control large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in grain sorghum (milo). Read and follow label directions for all products in the tank mixture.
This product may be applied to grain sorghum stubble following harvest to control or suppress re-growth. Apply 22 fluid ounces of this product per acre for control or 16 fluid ounces per acre for suppression.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest or the feeding of vegetation within the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

9.6 Herbs and Spices

LABELED CROPS: Allspice; Angelica; Star anise; Annatto (seed); Balm; Basil; Borage; Burnet; Camomile; Caper buds; Caraway; Black caraway; Cardamom; Cassia bark; Cassia buds; Catnip; Celery seed; Chervil (dried); Chive; Chinese chive; Cinnamon; Clary; Clove buds; Coriander leaf (cilantro or Chinese parsley); Coriander seed (cilantro); Costmary; Culantro (leaf); Culantro (seed); Cumin; Curry (leaf); Dill (dillweed); Dill (seed); Epazote; Fennel seed (common and Florence); Fenugreek; White ginger flower; Grains of paradise; Horehound; Hyssop; Juniper berry; Lavender; Lemongrass; Lovage (leaf and seed); Mace; Marigold; Marjoram (including oregano); Mexican oregano; Mioga flower; Mustard (seed); Nasturtium; Nutmeg; Parsley (dried); Pennyroyal; Pepper (black and white); Pepper leaves; Peppermint; Perilla; Poppy (seed); Rosemary; Rue; Saffron; Sage; Savory (summer and winter); Spearmint; Stevia leaves; Sweet bay; Tansy; Tarragon; Thyme; Vanilla; Wintergreen; Woodruff; Wormwood

TYPES OF APPLICATION: Those listed in Section 9.0, plus Spot Treatment (peppermint and spearmint only); Wiper Applicator (peppermint and spearmint only)

PRECAUTIONS: This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Remove residual product from the plastic prior to planting with a single 0.5-inch application of water, either by natural rainfall or by irrigation. Ensure that the wash water flushes off the plastic mulch and does not enter the transplant holes. Application made at crop emergence will result in injury or death of emerged seedlings.

Spot Treatment, Wiper Applicator (Peppermint and Spearmint Only)

USE INSTRUCTIONS: This product may be applied as a spot treatment in peppermint and spearmint, or over the top of peppermint and spearmint with a wiper applicator to control tall weeds. Application may be repeated on the same area at 30-day intervals. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest. For spot treatment application, do not apply this product to more than 10 percent of the total field area to be harvested.

9.7 Oilseed Crops

LABELED CROPS: Borage; Buffalo gourd (seed); Canola; Crambe; Flax; Jojoba; Lesquerella; Meadowfoam; Mustard (seed); Rape; Safflower; Sesame; Sunflower

For directions for use with Roundup Ready canola, see the “ROUNDUP READY CROPS” section of this label.

TYPES OF APPLICATION: Those listed in Section 9.0, plus Preharvest (safflower and sunflower only)

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product for use in canola, safflower and sunflower. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Canola</strong></td>
</tr>
<tr>
<td>Combined total for all</td>
</tr>
<tr>
<td>Preemergence and Selective</td>
</tr>
<tr>
<td>Equipment applications</td>
</tr>
<tr>
<td>44 fluid ounces per acre</td>
</tr>
<tr>
<td><strong>Safflower</strong></td>
</tr>
<tr>
<td>Combined total for all</td>
</tr>
<tr>
<td>Preemergence and Selective</td>
</tr>
<tr>
<td>Equipment applications</td>
</tr>
<tr>
<td>Preharvest application</td>
</tr>
<tr>
<td>64 fluid ounces per acre</td>
</tr>
<tr>
<td><strong>Sunflower</strong></td>
</tr>
<tr>
<td>Combined total for all</td>
</tr>
<tr>
<td>Preemergence and Selective</td>
</tr>
<tr>
<td>Equipment applications</td>
</tr>
<tr>
<td>Preharvest application</td>
</tr>
<tr>
<td>22 fluid ounces per acre</td>
</tr>
</tbody>
</table>

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting oilseed crops listed in this section, but prior to crop emergence. Observe the maximum application rates for canola, safflower and sunflower listed at the beginning of this section.

TANK MIXTURES: For sunflower, a tank mixture with pendimethalin may be applied before, during or after planting into conventionally tilled soil, a cover crop, established sod or previous crop residue.

Selective Equipment

USE INSTRUCTIONS: This product may be applied using a wiper applicator or shielded sprayer in between rows once the crop is established. See additional instructions on
the use of wiper applicators and hooded sprayers in the “APPLICATION EQUIPMENT AND
TECHNIQUES” section of this label. Observe the maximum application rates for canola, safflower and sunflower listed at the beginning of this section.

Preharvest (Safflower and Sunflower Only)

USE INSTRUCTIONS: This product provides weed control and serves as a harvest aid when applied to a physiologically mature crop of safflower and sunflower prior to harvest. For safflower, apply up to 64 fluid ounces of this product per acre when seed has lost its opaque character, approximately 20 to 30 days after the end of flowering of the secondary branches. For sunflower, apply up to 22 fluid ounces of this product per acre when the backsides of sunflower heads are yellow and bracts are turning brown, and seed moisture content is less than 35 percent.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest or livestock feeding. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of oilseed crops. Higher application rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in the crop harvested. Read and follow label directions for all products in the tank mixture.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest or the feeding of vegetation within the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

9.8 Soybean

TYPES OF APPLICATION: Those listed in Section 9.0, plus Spot Treatment; Selective Equipment; Preharvest

For directions for use with Roundup Ready soybean and Roundup Ready 2 Yield soybean, see the “ROUNDUP READY CROPS” section of this label.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied alone or in a tank mixture before, during or after planting soybean, but prior to crop emergence.

TANK MIXTURES: This product may be tank-mixed with 2,4-D, Banvel or Clarity and applied prior to planting only. This product may also be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to planting or the emergence of soybean. Read and follow label directions for all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water per acre.

Aim; Assure II; Authority Assist; Authority First; Authority MTZ; Authority XL; Axiom; Boundary; Cadet, Canopy; Canopy EX; Classic; Cobra; Command; Command Xtra; Dawn; Dual MAGNUM; Dual II MAGNUM; FirstRate; Flexstar; Frontier; Fusion; Gangster; INTRRO; Linex; Lorox; Micro-Tech; Optill; Outlook; PARRLAY; Pendimax; Phoenix; Prowl; Prowl H2O; Pursuit; Pursuit Plus; Python; Reflex; Resource; Rhythm; Scepter; Select; Select MAX; Sharpen; Spartan; Treflan; Valor; Valor XLT; alachlor; atrazine; carfentrazone-ethyl; chlorimuron ethyl; clethodim; clomazone; cloransulam-methyl; dimethenamid; dimethenamid-p; fenoxprop; fluazifop-p-butyl; flufenacet; flumetsulam; flumiclorac pentyl ester; flumioxazin; fluthiacet-methyl; fomesafen; imazaquin; imazethapyr; lactofen; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; quizalofop P-ethyl; saflufenacil; sulfentrazone; tribenuron methyl; trifluralin

For tough-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 22 fluid ounces of this product per acre in a tank mixture with one of the products listed. For other annual weeds listed on this label, apply 16 to 22 fluid ounces of this product per acre when weeds are less than 6 inches tall and 22 to 32 fluid ounces per acre when weeds are over 6 inches tall.

Spot Treatment

USE INSTRUCTIONS: This product may be applied as a spot treatment prior to initial pod set in soybean.

RESTRICTIONS: Do not apply this product to more than 10 percent of the total field area to be harvested.

Selective Equipment

USE INSTRUCTIONS: This product may be applied in soybean using a shielded applicator, hooded sprayer, wiper applicator or sponge bar. See additional instructions on the use of selective equipment in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest or the feeding of vegetation within the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of oilseed crops. Higher application rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in the crop harvested. Read and follow label directions for all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water per acre.

Aim; Assure II; Authority Assist; Authority First; Authority MTZ; Authority XL; Axiom; Boundary; Cadet, Canopy; Canopy EX; Classic; Cobra; Command; Command Xtra; Dawn; Dual MAGNUM; Dual II MAGNUM; FirstRate; Flexstar; Frontier; Fusion; Gangster; INTRRO; Linex; Lorox; Micro-Tech; Optill; Outlook; PARRLAY; Pendimax; Phoenix; Prowl; Prowl H2O; Pursuit; Pursuit Plus; Python; Reflex; Resource; Rhythm; Scepter; Select; Select MAX; Sharpen; Spartan; Treflan; Valor; Valor XLT; alachlor; atrazine; carfentrazone-ethyl; chlorimuron ethyl; clethodim; clomazone; cloransulam-methyl; dimethenamid; dimethenamid-p; fenoxprop; fluazifop-p-butyl; flufenacet; flumetsulam; flumiclorac pentyl ester; flumioxazin; fluthiacet-methyl; fomesafen; imazaquin; imazethapyr; lactofen; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; quizalofop P-ethyl; saflufenacil; sulfentrazone; tribenuron methyl; trifluralin
acre may be made onto fallow sites where there is sufficient buffer to prevent drift onto adjacent crops. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for this application in sugarcane. Read and follow label directions for all products in the tank mixture.

9.9 Sugarcane

TYPES OF APPLICATION: Those listed in Section 9.0, plus Spot Treatment

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied in or around sugarcane fields, or in fields prior to the emergence of plant cane.

RESTRICTIONS: Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Spot Treatment

USE INSTRUCTIONS: This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, apply a 1-percent solution of this product in water using a spray-to-wet technique. Best results are obtained on volunteer or diseased sugarcane with at least 7 new leaves. Avoid contact of this herbicide with healthy sugarcane plants as severe damage or destruction could result.

RESTRICTIONS: Do not feed or graze sugarcane foliage within the application area.

Hooded Sprayer

USE INSTRUCTIONS: This product may be applied using a hooded sprayer for weed control in between rows of sugarcane. See additional instructions on the use of hooded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS: Do not allow weeds within the application area to come into contact with the crop.

Fallow Treatment

USE INSTRUCTIONS: This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane by applying 2.5 to 3.3 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow a minimum of 7 days after application before tillage. Aerial application of up to 64 fluid ounces per acre may be made onto fallow sites where there is sufficient buffer to prevent drift onto adjacent crops. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for this application in sugarcane. Read and follow label directions for all products in the tank mixture.

9.9.1 Sugarcane Ripening

USE INSTRUCTIONS: This product may be used as a foliar-applied plant growth regulator to hasten ripening and extend the period of high sucrose level in both low- and high-tonnage sugarcane. Most of the sucrose increase is concentrated in the top nodes of the cane stalk. To maximize sugar recovery where topping is practiced at harvest, top at the base of the fourth leaf. Consult your state sugarcane authority or local Monsanto Company representative regarding the degree of sucrose response that can be anticipated prior to application of this product.

As a result of leaf desiccation, improved trash burn can be expected.

Apply this product at the following rates and timing according to the State in which the sugarcane is grown. Use the higher application rate within the given range when treating sugarcane under adverse ripening conditions or less responsive varieties.

FLORIDA – Apply 5 to 12 fluid ounces of this product per acre 3 to 5 weeks before harvest of LAST RATOON CANE ONLY

HAWAII – Apply 9 to 21 fluid ounces of this product per acre 4 to 10 weeks before harvest.

LOUISIANA – Apply 4 to 12 fluid ounces of this product per acre 3 to 7 weeks before harvest of RATOON CANE ONLY.

PUERTO RICO – Apply 5 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

TEXAS – Apply 5 to 12 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

PRECAUTIONS: Application of this product could initiate development of shooting eyes. This product might not increase the sucrose content of sugarcane under conditions of good natural ripening. Within 2 to 3 weeks after application, this product could produce a slight yellowing to a pronounced browning and drying of leaves, and a shortening of upper internodes. Spindle death could occur.

Rainfall within 6 hours after application could reduce the effectiveness of this product.

Application to sugarcane grown for seed could result in a reduction in germination or vigor. Buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on sugarcane grown for seed.
RESTRICtions: Do not feed or graze sugarcane forage following application. Do not plant subsequent crops within 30 days after application of this product other than the following: alfalfa or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), pasture grasses, peanuts, potatoes (Irish or sweet), sorghum (milo), soybean, squash (all types) or wheat.

Do not apply for enhanced ripening to any crops other than sugarcane. Use of this product in any manner not consistent with this label could result in injury to persons, animals or crops, or other unintended consequences.

**9.10 Vegetable Crops**

This section provides directions for use that apply to all vegetable crops listed in the following sections. See the individual crop sections for specific directions for use, preharvest intervals, precautions and restrictions.

**Types of Application:** Chemical Fallow; Preplant Fallow Beds; Preplant; At-Planting; Preemergence; Prior to Transplanting Vegetables; Hooded Sprayer in Row Middles; Shielded Sprayer in Row Middles; Wiper Applicator in Row Middles; Directed Application (non-bearing ginseng only); Wiper Applicator (rutabaga only); Post-Harvest

**Precautions:** This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Remove residual product from the plastic prior to planting with a single 0.5-inch application of water, either by natural rainfall or by irrigation. Ensure that the wash water flushes off the plastic mulch and does not enter the transplant holes. Application of this product at crop emergence will result in injury or death to emerged seedlings.

Avoid contact of this herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from the plastic mulch), or fruit of crops, as severe crop injury or destruction could result. Transplanted seedlings coming into contact with freshly sprayed weeds could result in significant crop injury.

Preemergence application must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury. In crops with vines, make hooded sprayer, shielded sprayer and wiper applications in row middles prior to vine development, otherwise severe crop injury or destruction could result.

**Restrictions:** Unless otherwise directed on this label, application using selective equipment, including wiper applicators and hooded sprayers, must be made a minimum of 14 days prior to harvest. Post-harvest and fallow applications must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

### 9.10.1 Brassica Vegetables

**Labeled Crops:** Broccoli; Chinese broccoli (gai lon); Broccoli raab (rapini); Brussels sprouts; Cabbage; Chinese cabbage (bok choy); Chinese cabbage (napa); Chinese mustard cabbage (gai choy); Cauliflower; Cavalo broccoli; Collards; Kale; Kohlrabi; Mizuna; Mustard greens; Mustard spinach; Rape greens

### 9.10.2 Bulb Vegetables

**Labeled Crops:** Garlic; Great-headed garlic; Leek; Onion (dry bulb and green); Welsh onion; Shallot

### 9.10.3 Cucurbit Vegetables and Fruits

**Labeled Crops:** Chayote (fruit); Chinese waxgourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra); Melons (all); Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); Muskmelon (includes cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey ball melon, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon); Pumpkin; Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); Watermelon

**Restrictions:** For cantaloupe, casaba melon, crenshaw melon, cucumber, gherkin, gourds, honeydew melon, honey ball melon, mango melon, melons (all), muskmelon, Persian melon, pumpkin, squash (summer, winter), and watermelon, allow a minimum of 3 days between application and planting.

### 9.10.4 Leafy Vegetables

**Labeled Crops:** Amaranth (Chinese spinach); Arugula (roquette); Beet greens; Cardoon; Celery; Chinese celery; Celtuce; Chaya; Chervil; Edible-leaved chrysanthemum; Garland chrysanthemum; Corn salad; Cress (garden and upland); Dandelion; Dock (sorrel); Dokudami; Endive (escarole); Florence fennel; Gow kee; Lettuce (head and leaf); Orach, Parsley; Purslane (garden and winter); Radicchio (red chicory); Rhubarb; Spinach; New Zealand spinach; Vine spinach; Swiss chard; Watercress (upland); Water spinach
RESTRICTIONS: For watercress, allow a minimum of 3 days between application and seeding, and do not apply this product during the period between seeding and emergence.

9.10.5 Fruiting Vegetables

LABELED CROPS: Eggplant; Groundcherry (Physalis spp); Pepino; Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo; Tomato

RESTRICTIONS: Allow a minimum of 3 days between application and planting. For tomato and tomatillo, do not apply this product using a hooded or shielded sprayer in row middles because of the potential for crop injury.

9.10.6 Legume Vegetables (Succulent or Dried)

LABELED CROPS: Bean (Lupinus: includes grain lupin, sweet lupin, white lupin, white sweet lupin); Bean (Phaseolus: includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); Bean (Vigna: includes adzuki bean, asparagus bean, black-eyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); Broad bean (fava); Chickpea (garbanzo); Guar; Jackbean; Lablab bean; Lentil; Pea (Pisum: includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); Pigeon pea; Soybean (immature seed); Sword bean

TYPES OF APPLICATION: Those listed in Section 9.0, plus Spot Treatment (dry beans, peas, lentils and chickpeas only); Preharvest (dry beans, peas, lentils and chickpeas only)

Spot Treatment (Dry Beans, Peas, Lentils and Chickpeas Only)

USE INSTRUCTIONS: This product may be applied as a spot treatment to control troublesome weeds such as Canada thistle, quackgrass, mayweed (dog fennel) and milkweed in dry beans, peas, lentils and chickpeas. Apply up to 22 fluid ounces of this product per acre in dry beans, or up to 64 fluid ounces per acre in dry peas, lentils and chickpeas, in 10 to 20 gallons of water using ground application equipment, or use a 2-percent solution in a handheld sprayer. For best results, apply at or beyond the bud stage of growth.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest. Only one spot treatment application may be made per year. Do not combine spot treatment with a preharvest broadcast application on the same crop area. Allow a minimum of 30 days between application and the planting of any crop not listed on this label. Do not feed vines and hay from the application area to livestock. Do not apply this product in cowpeas or field (feed) peas, since this crop is considered to be grown only as livestock feed.

Preharvest (Dry Beans, Peas, Lentils and Chickpeas Only)

USE INSTRUCTIONS: This product may be applied over the top of dry beans, peas, lentils and chickpeas prior to harvest. Apply up to 22 fluid ounces of this product per acre in dry beans, or up to 64 fluid ounces per acre in dry peas, lentils and chickpeas, in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less).

RESTRICTIONS: Allow a minimum of 7 days between application and harvest. Only one preharvest application may be made per year. Do not combine a preharvest application with a spot treatment application on the same crop area. Allow a minimum of 30 days between application and the planting of any crop not listed on this label. Do not feed vines and hay from the application area to livestock. Do not make a preharvest application of this product in cowpeas or field peas, since this crop is considered to be grown only as livestock feed.

9.10.7 Root and Tuber Vegetables

LABELED CROPS: Arracacha; Arrowroot; Chinese artichoke; Jerusalem artichoke; Beet (garden); Burdock; Canna; Carrot; Cassava (bitter and sweet); Celeriac; Chayote (root); Chervil (turnip-rooted); Chicory; Chufa; Dasheen (taro); Galangal; Ginger; Ginseng; Horseradish; Leren; Kava (turnip-rooted); Parsley (turnip-rooted); Parsnip; Potato; Radish; Oriental radish; Rutabaga; Salsify; Black salsify; Spanish salsify; Sirkit; Sweet potato; Tanier; Turmeric; Turnip; Wasabi; Yacon; Yam bean; True yam

Directed Application (Non-Bearing Ginseng Only)

USE INSTRUCTIONS: This product may be applied for weed control in established non-bearing ginseng using a boom sprayer, CDA, shielded sprayer, wiper applicator, handheld or backpack wand, lance, or orchard gun. Control the application so as to not allow any contact of this product with the ginseng plant. See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Application must be made a minimum of one year prior to harvest.

Wiper Applicator (Rutabaga Only)

USE INSTRUCTIONS: A wiper applicator may be used over the top of rutabaga for the control of tall weeds. See additional use instructions for wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: Allow a minimum of 14 days between application and harvest of rutabaga.
9.11 Miscellaneous Crops

**LABELED CROPS:** Aloe vera; Asparagus; Bamboo shoots; Globe artichoke; Okra; Peanut (ground nut); Pineapple; Strawberry; Sugarbeet

**TYPES OF APPLICATION:** Those listed in Section 9.0, plus Spot Weed Control; Site Preparation; Spot Treatment (asparagus); Post-Harvest (asparagus)

For directions for use with Roundup Ready sugarbeet, see the “ROUNDUP READY CROPS” section of this label.

**PRECAUTIONS:** Preemergence application must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury. In crops with vines, apply this product in row middles using a hooded sprayer, shielded sprayer or wiper applicator prior to vine development, otherwise severe crop injury or destruction could result.

**Spot Weed Control, Site Preparation**

**USE INSTRUCTIONS:** This product may be applied for spot weed control and site preparation prior to planting or transplanting crops listed in this section.

**PRECAUTIONS:** This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Remove residues of this product from the plastic with a single 0.5-inch application of water, either by natural rainfall or irrigation, prior to planting. Ensure that the wash water flushes off the plastic mulch and does not enter transplant holes.

**RESTRICTIONS:** Allow a minimum of 21 days between residue removal and transplanting. Do not apply this product within 7 days prior to the emergence of the first asparagus spears. Do not feed or graze pineapple forage from within the application area.

**Spot Treatment (Asparagus)**

**USE INSTRUCTIONS:** This product may be applied immediately after cutting asparagus, but prior to the emergence of new spears.

**RESTRICTIONS:** Do not apply this product to more than 10 percent of the total field area to be harvested. Do not harvest asparagus within 5 days of a spot treatment application.

**Post-Harvest (Asparagus)**

**USE INSTRUCTIONS:** This product may be applied for weed control after the last harvest of asparagus and all spears have been removed. If spears are allowed to re-grow, delay application until ferns have developed and make the application as a directed or shielded spray in order to avoid contact of this product with ferns, stems or spears.

See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

**PRECAUTIONS:** Direct contact of this product with asparagus could result in serious crop injury.

10.0 TREE, VINE AND SHRUB CROPS

**THIS SECTION PROVIDES DIRECTIONS FOR USE THAT APPLY TO ALL TREE, VINE, AND SHRUB CROPS LISTED IN THE FOLLOWING SECTIONS. SEE THE INDIVIDUAL CROP SECTIONS FOR SPECIFIC DIRECTIONS FOR USE, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.**

**TYPES OF APPLICATION:** Preplant (site preparation); Broadcast Spray; Site Weed Control; Middles (in between rows of trees, vines or bushes); Strips (within rows of trees, vines or bushes); Selective Equipment (shielded sprayer, wiper applicator); Directed Spray; Spot Treatment; Perennial Grass Suppression; Cut Stump Application

This product may be applied using a boom sprayer, CDA, shielded sprayer, wiper applicator, handheld or backpack wand, lance or orchard gun, unless specifically prohibited in the individual crop sections that follow.

**USE INSTRUCTIONS:** This product may be applied in middles (in between rows of trees or vines), strips (within rows of trees or vines), and for weed control or perennial grass suppression in established tree fruit and nut groves, orchards, berries and vineyards. It may also be used for site preparation prior to planting or transplanting these crops. Apply 11 fluid ounces to 3.3 quarts of this product per acre as directed in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Use the higher application rate within the given range when weeds are stressed, growing in dense populations or greater than 12 inches tall. Application may be repeated as needed up to a maximum of 7 quarts of this product per acre per year. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

**PRECAUTIONS:** Use extreme care to avoid contact of this herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees, canes and vines. Avoid application when recent pruning wounds or other mechanical injury have occurred. Contact of this product with other than matured brown bark could result in serious crop damage or destruction. Only shielded or directed sprayers may be used in crops where potential for crop contact is high, and then only where there is sufficient clearance. For application in strips (within rows of trees), only selective equipment (directed spray, hooded sprayer, shielded sprayer, or wiper applicator) may be used in order to minimize the potential for overspray or drift of this product onto the crop. For berry crops, hooded sprayers must be fully enclosed including top, sides, front and
RESTRICTIONS: Do not apply these tank mixtures in Puerto Rico.

Middles (in between rows)
USE INSTRUCTIONS: This product will control or suppress annual and perennial weeds and ground covers growing in between rows of tree and vine crops listed on this label. If weeds are under drought stress, irrigate prior to application. Reduced weed control could result if weeds have been recently mowed at the time of application.

TANK MIXTURES: A tank mixture of this product with Goal 2XL may be applied for annual weed control in between rows (middles) of citrus, tree fruit, tree nut and vine crops when weeds are stressed or growing in dense populations. Application of 11 to 22 fluid ounces of this product, plus 3 to 12 fluid ounces of Goal 2XL, per acre will control annual weeds with a maximum height or length of 6 inches, including crabgrass, common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherd’s-purse, annual sowthistle, filaree (suppression), horseweed/marestail, stinging nettle and common purslane (suppression). This tank mixture will also control common cheeseweeds (malva) or hairy fleabane with a maximum height or length of 3 inches.

This product may also be applied to row middles in tank mixtures with the following products. Ensure that the product used is labeled for application within the crop being grown. Read and follow label directions for all products in the tank mixture.

- Alion; Chateau; Devrinol 50-DF; Direx 4L; Dri-Clean; Fusilade DX; Goal 2XL; GoalTender; Karmex DF; Karmex II DF; Matrix FNV; Orchard Master CA; pendimethalin; Pindar GT; Poast; Princep Caliber 90; Rely 200; Rely 280; Select Max; Simazine 4L; Simazine 80W; Sim-Trol 4L; Solicam DF; Surflan AS; Surflan 75W; Treevix Powered by Kixor; Venue; Visor 2E

Strips (within rows)
TANK MIXTURES: This product may be applied within rows of tree or vine crops in tank mixtures with the following products. Ensure that the product used is labeled for application within the crop being grown. Read and follow label directions for all products in the tank mixture.

- Alion; Chateau; Devrinol 50-DF; Direx 4L; Dri-Clean; Fusilade DX; Goal 2XL; GoalTender; Karmex DF; Karmex II DF; Matrix FNV; Orchard Master CA; pendimethalin; Pindar GT; Poast; Princep Caliber 90; Rely 200; Rely 280; Select Max; Simazine 4L; Simazine 80W; Sim-Trol 4L; Solicam DF; Surflan AS; Surflan 75W; Treevix Powered by Kixor; Venue; Visor 2E

RESTRICTIONS: Do not apply these tank mixtures in Puerto Rico.

Perennial Grass Suppression
This product will suppress perennial grasses such as bahiagrass, bermudagrass, tall fescue, orchardgrass, Kentucky bluegrass, and quackgrass that are grown as ground covers in tree, vine and shrub crops.

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 4 fluid ounces of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 4 fluid ounces of this product per acre. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and then apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seed head inhibition of bahiagrass for approximately 45 days, apply 4 fluid ounces of this product in 10 to 25 gallons of water per acre 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches prior to seed head emergence. For suppression for up to 120 days, apply 3 fluid ounces of this product per acre, followed by an application of 2 to 3 fluid ounces per acre about 45 days later. Make no more than two applications per year.

For suppression of bermudagrass, apply 22 to 44 fluid ounces of this product in 3 to 20 gallons of water per acre. Make this application only if a reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, make the application a minimum of 21 days prior to harvest to allow sufficient time for burndown to occur.

For suppression of bermudagrass, apply 4 to 11 fluid ounces of this product per acre east of the Rocky Mountains and 11 fluid ounces of this product per acre west of the Rocky Mountains in a total spray volume of 3 to 20 gallons per acre no sooner than 1 to 2 weeks after full green-up. If the bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when re-growth occurs and bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, apply 4 to 7 fluid ounces of this product per acre in shaded conditions or where a lesser degree of suppression is desired.

Cut Stump Application
Application of this product to a freshly cut tree stump may be made during site preparation or site renovation prior to transplanting tree crops to control re-growth and re-sprouting of many tree species, some of which are listed below.

Citrus Trees: Calamondin; Chironja; Citron; Citrus hybrids; Grapefruit; Kumquat; Lemon; Lime; Mandarin (tangerine); Orange (all); Pummelo; Tangelo (ugli); Tangor

Fruit Trees: Apple; Apricot; Cherry (sweet, sour); Crabapple; Loquat; Mayhaw; Nectarine; Olive; Peach; Pear; Plum/Prune (all); Quince
water in ditches prior to application. With a handheld sprayer, apply a 1- to 1.5-percent solution of this product adequately to wet the vegetation only, do not spray to the point of runoff. To achieve maximum weed control in dry ditches, apply this product within 1 day after water drawdown to ensure application to actively growing weeds and allow a minimum of 2 days after application before reintroduction of water.

RESTRICTIONS: Allow a minimum of 30 days between application and harvest of cranberries. Do not apply by air. Do not apply directly to water. Use nozzles that produce medium- to large-sized droplets to minimize spray drift and avoid crop injury.

**Post-Harvest (Cranberry Only)**

USE INSTRUCTIONS: This product may be applied after cranberries have been harvested to control weeds growing in the field. Apply this product to vines that appear dormant (after they have turned red) using a handheld sprayer, wiper applicator, or other appropriate application equipment listed in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label. With a handheld sprayer, apply a 0.4- to 0.7-percent solution of this product to adequately wet the vegetation only; do not spray to the point of runoff. With a handheld boom sprayer, apply 44 to 86 fluid ounces of this product per acre.

PRECAUTIONS: Even though vines appear dormant, contact of this product with desirable vegetation could result in damage or severe plant injury. Cranberry plants that are directly sprayed could be killed.

RESTRICTIONS: Apply this product only after cranberries have been harvested. Do not apply to more than 10 percent of the total bog. Allow a minimum of 6 months between application and next harvest of cranberries. Do not apply by air. Do not apply directly to water.

**10.2 Citrus Fruit Crops**

**LABELED CROPS:** Calamondin; Chironja; Citron; Citrus Hybrids; Grapefruit; Kumquat; Lemon; Lime; Mandarin (tangerine); Orange (all); Pummelo; Satsuma mandarin; Tangelo (ugli); Tangor

**TYPES OF APPLICATION:** Those listed in Section 10.0

**USE INSTRUCTIONS:** The following use instructions pertain to application in Florida and Texas only.

For burndown or control of the weeds listed below, apply this product at the specified rate in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

To control goatweed, apply 44 to 64 fluid ounces of this product in 20 to 30 gallons of water per acre when plants are actively growing. Apply 44 fluid ounces per acre when plants are less than 8 inches tall and 64 fluid ounces per acre when plants are greater than 8 inches tall. If goatweed is greater than 8 inches tall, the use of this product in a tank mixture...
with Krovlar I or Karmex could improve weed control. Refer to the individual product labels for listing of specific crops, rates, geographic restrictions and precautionary statements.

**Perennial weeds:**

- **S** = Suppression
- **B** = Burndown
- **PC** = Partial control
- **C** = Control

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>0.7 QT</th>
<th>1.3 QT</th>
<th>2 QT</th>
<th>3.3 QT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bermudagrass</td>
<td></td>
<td></td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Guineagrass</td>
<td></td>
<td></td>
<td>PC</td>
<td>C</td>
</tr>
<tr>
<td>Texas and Florida Ridge</td>
<td>B</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Florida Flatwoods</td>
<td></td>
<td>B</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Paragass</td>
<td>B</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Torpedograss</td>
<td>S</td>
<td></td>
<td>PC</td>
<td>C</td>
</tr>
</tbody>
</table>

**Restricions:** Allow a minimum of 1 day between application and harvest of citrus fruit crops. For citron groves, apply as a directed spray only.

### 10.3 Pome Fruit Crops

**Labeled Crops:** Apple; Crabapple; Loquat; Mayhaw; Pear (including Oriental pear); Quince

**Types of Application:** Those listed in Section 10.0

**Restrictions:** Allow a minimum of 1 day between application and harvest of pome fruit crops.

### 10.4 Stone Fruit Crops

**Labeled Crops:** Apricot; Cherry (sweet, tart); Nectarine; Olive; Peach; Plum/Prune (all types); Plumcot

**Types of Application:** Those listed in Section 10.0

**Precautions:** Avoid application near trees with recent pruning wounds or other mechanical injury. Apply only near trees that have been planted in the orchard for a minimum of 2 years. **Ensure that no part of a peach tree is contacted with overspray or drift of this product.**

**Restrictions:** Allow a minimum of 17 days between application of this product and harvest in stone fruit crops. In olive groves, apply as a directed spray only. Remove suckers and low-hanging limbs a minimum of 10 days prior to application.

### 10.5 Tree Nut Crops

**Labeled Crops:** Almond; Beechnut; Betelnut; Brazil nut; Butternut; Cashew; Chestnut; Chinquapin; Coconut; Filbert (hazelnut); Hickory nut; Macadamia; Pecan; Pine nut; Pistachio; Walnut (black, English)

**Types of Application:** Those listed in Section 10.0

**Restrictions:** Allow a minimum of 3 days between application and harvest of tree nuts, except coconut. Allow a minimum of 14 days between application and harvest of coconut.

### 10.6 Tropical and Subtropical Trees and Fruit Crops

**Labeled Crops:** Ambarella; Atemoya; Avocado; Banana; Barbados cherry (acerosa); Biriba; Blimbe; Breadfruit; Cacao (cocoa) bean; Canistel; Carambola (starfruit); Cherimoya; Coffee; Custard apple; Dates; Durian; Feijoa; Figs; Governor’s plum; Guava; Ilaa; Imbe; Imbu; Jaboticaba; Jackfruit; Longan; Lychee; Mamey apple; Mango; Mangosteen; Marmaladebox; Mountain papaya; Noni (Indian mulberry); Papaya; Pawpaw; Plantain; Persimmon; Pomegranate; Pulasan; Rambutan; Rose apple; Sapodilla; Sapote (black, mamey, white); Spanish lime; Soursop; Star apple; Sugar apple; Surinam cherry; Tamarind; Tea; Ti (roots and leaves); Wax jambu

**Types of Application:** Those listed in Section 10.0, and as a Bananacide (banana only)

**Restrictions:** Allow a minimum of 1 day between application and harvest of citron groves. Apply as a directed spray only.

**10.4 Stone Fruit Crops**

**Labeled Crops:** Apricot; Cherry (sweet, tart); Nectarine; Olive; Peach; Plum/Prune (all types); Plumcot

**Types of Application:** Those listed in Section 10.0

**Precautions:** Avoid application near trees with recent pruning wounds or other mechanical injury. Apply only near trees that have been planted in the orchard for a minimum of 2 years. **Ensure that no part of a peach tree is contacted with overspray or drift of this product.**

**Restrictions:** Allow a minimum of 17 days between application of this product and harvest in stone fruit crops. In olive groves, apply as a directed spray only. Remove suckers and low-hanging limbs a minimum of 10 days prior to application.
Precautions: Avoid contact of spray, drift or mist of this product with foliage or green bark of established Christmas trees and other pine trees. Desirable plants can be protected from the spray solution by using shields or coverings of impermeable materials.

Restrictions: Do not apply this product as a broadcast application over the top of plantations or tree crops.

Site Preparation

Use Instructions: This product may be used for weed control prior to planting non-food tree crops.

Precautions: Protect non-target plants from being sprayed with this product during site preparation application.

Directed Spray, Spot Treatment, Wiper Applicator

Use Instructions: This product may be applied as a post-directed spray or spot treatment, or applied using a wiper applicator, around established Christmas trees, eucalyptus, poplar, and all other non-food tree crops.

11.0 Pasture Grasses, Forage Legumes and Rangeland

Use Instructions: Refer to the “Annual Weeds Rate Section” and “Perennial Weeds Rate Section” of this label for application rates of this product for specific weeds. When applied as directed, this product will control those annual and perennial grasses and broadleaf weeds listed. Application rates specified on this label for the control of tough weeds, or those specified on separate supplemental labeling for this product, supersede rates listed in the “Annual Weeds Rate Section,” “Perennial Weeds Rate Section” and “Woody Brush and Trees Rate Section” of this label. Additional information on the control of tough weeds can be found on Fact Sheets published for this product.

11.1 Alfalfa, Clover, and Other Forage Legumes

Use Instructions: Roundup Ready alfalfa, see the “Roundup Ready Crops” section of this label.
Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting crops listed in this section, but prior to crop emergence.

RESTRICTIONS: Remove domestic livestock before application.

Spot Treatment, Wiper Applicator

USE INSTRUCTIONS: This product may be applied as a spot treatment or over the top of crops listed in this section using a wiper applicator. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label. Application may be repeated in the same area at 30-day intervals.

RESTRICTIONS: For spot treatment and use with a wiper applicator, apply in areas where the movement of domestic livestock cannot be controlled. Remove domestic livestock before application and wait a minimum of 3 days after application before grazing livestock or harvesting. Do not apply this product to more than 10 percent of the total field area at any one time.

Weed Control in Dormant Alfalfa

USE INSTRUCTIONS: This product will control or suppress many weeds, including quackgrass, downy brome and cheatgrass in dormant alfalfa. Apply 6 to 8 fluid ounces of this product per acre in the spring when alfalfa is dormant, after spring temperatures have warmed enough to encourage weed growth, but prior to initiation of trifoliate leaf expansion of the alfalfa crop. Application made after expansion of the first trifoliate leaf will cause growth reduction and reduced crop yield.

PRECAUTIONS: Improper application of this product to alfalfa can cause crop injury. Any crop injury is the sole responsibility of the applicator. Do not use this product on dormant alfalfa if a slight yield reduction in the first cutting cannot be tolerated. Slight discoloration of the alfalfa crop could occur, but will re-green and resume growth under moist soil conditions as effects of this product wear off.

RESTRICTIONS: Do not add ammonium sulfate to spray solutions of this product for application to dormant alfalfa. Do not make more than one application per year. Allow a minimum of 36 hours after application before grazing livestock or harvesting.

Preharvest (Except Kenaf and Leucaena), Stand Removal

USE INSTRUCTIONS: This product may be applied as a broadcast application prior to harvest (except in kenaf and leucaena) in declining stands or in any stand where severe crop injury or destruction is acceptable, or to remove established stands of any forage legumes listed in this section. Application may be made at any time of the year to control annual and perennial weeds, including quackgrass. For control of quackgrass, apply in the spring, late summer or fall when quackgrass is actively growing. Application for quackgrass control must be followed by deep tillage for complete control. If the crop is to be harvested or grazed by livestock, apply up to 44 fluid ounces of this product per acre in alfalfa and up to 32 fluid ounces per acre in all other legumes listed in this section. For complete removal of established stands of clover, it might be necessary to use a higher application rate, as listed in the “PERENNIAL WEEDS RATE SECTION” of this label.

PRECAUTIONS: This application can destroy an alfalfa stand and severely injure or destroy other legume crops listed, such as clover. Remove domestic livestock before application. Preharvest application on alfalfa grown for seed could result in a reduction in germination or vigor. Buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on alfalfa grown for seed.

RESTRICTIONS: Make only one application to an existing crop stand per year. Foliage within the application area can be harvested and fed to livestock according to the application rates and intervals defined in the following table. If applying at a rate greater than those listed here, do not harvest foliage for livestock feed or allow livestock to graze within the application area.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum Single Preharvest Application Rate (per acre)</th>
<th>Minimum Interval Between Application and Harvest or Livestock Grazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>44 fluid ounces</td>
<td>36 hours</td>
</tr>
<tr>
<td>All other legumes listed</td>
<td>32 fluid ounces</td>
<td>3 days</td>
</tr>
</tbody>
</table>

Crops listed on this label may be planted into the application area at any time; all other crops may be planted 30 days after application.

11.2 Conservation Reserve Program (CRP)

TYPES OF APPLICATION: Renovation (rotating out of CRP); Site Preparation; Postemergence Weed Control in Dormant CRP Grasses; Wiper Applicator

Renovation (Rotating Out of CRP), Site Preparation

USE INSTRUCTIONS: This product may be used to prepare CRP land for crop production. Refer to Federal, State or local use guides for CRP renovation information.

RESTRICTIONS: Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

Postemergence Weed Control in Dormant CRP Grasses, Wiper Applicator

USE INSTRUCTIONS: Apply this product to suppress competitive growth and seed production of undesirable vegetation on CRP land. Application may be made using a
11.3 Grass Seed and Sod Production

LABELED CROPS: Any grass (Gramineae family), except Corn; Sorghum; Sugarcane and those listed in the “CEREAL AND GRAIN CROPS” section of this label.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Renovation; Removal of Established Stands; Site Preparation; Shielded Sprayer; Wiper Applicator; Spot Treatment; Creating Rows in Annual Ryegrass.

Preplant, At-Planting, Preemergence, Renovation, Removal of Established Stands, Site Preparation

USE INSTRUCTIONS: This product controls most existing vegetation for purposes of renovating turf or forage grass seed production areas, or for establishing turfgrass grown for sod. It may be used to destroy undesirable grass vegetation when production fields are converted to alternate species or crops. Do not disturb soil or underground plant parts before application. Delay tillage or renovation techniques, including vertical mowing, coring and slicing, for a minimum of 7 days after application to allow for herbicide translocation into underground plant parts. Application must be made prior to new crop emergence in order to avoid crop injury.

Apply before, during, or after planting, or for renovation purposes. For maximum control of existing vegetation, delay planting to determine if any re-growth of underground plant parts will occur. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the herbicide spray. Where repeat applications are necessary, sufficient re-growth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall application provides best control. Broadcast application of this product may be used to control sod remnants or other unwanted vegetation after sod is harvested. Application rates of up to 3.3 quarts per acre may be used to totally remove an established stand of tough to kill grass species.

RESTRICTIONS: If application rate is 2 quarts per acre or less, no waiting period between application and feeding or livestock grazing is required. If the rate is greater than 2 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

Shielded Sprayer

USE INSTRUCTIONS: Apply 22 to 64 fluid ounces of this product in 10 to 20 gallons of water per acre to control weeds between grass seed rows. Uniform planting in straight rows will aid shielded sprayer application. Best results are obtained when the grass seed crop is small enough to easily pass by the protective shields. See additional instructions on the use of shielded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS: Contact of this product in any manner to any vegetation to which application is not intended could cause damage. Such damage shall be the sole responsibility of the applicator.

Wiper Applicator

USE INSTRUCTIONS: This product may be applied over the top of desirable grasses using a wiper applicator for the control of tall weeds. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS: Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation could result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the applicator.

Spot Treatment

USE INSTRUCTIONS: Apply a 1-percent solution of this product using a handheld sprayer to control weeds within established vegetation prior to heading of grasses grown for seed or to control sod remnants or other unwanted vegetation after sod is harvested.

PRECAUTIONS: This product will kill the desirable grass along with the weeds. Take care not to spray or allow spray to drift outside the target area in order to avoid unwanted crop destruction.

Creating Rows in Annual Ryegrass

USE INSTRUCTIONS: Apply 11 to 22 fluid ounces of this product per acre. Best results are obtained when application is made before ryegrass reaches 6 inches in height. Use the higher application rate within this range when ryegrass is greater than 6 inches in height.
height. Set nozzle height to allow the establishment of the desired row spacing. Use low-pressure nozzles or drop nozzles designed to target the application over a narrow band.

PRECAUTIONS: Take care not to spray or allow spray to drift outside target area in order to avoid unwanted crop destruction.

To the extent consistent with applicable law, grower assumes all responsibility for crop losses resulting from misapplication of this product.

11.4 Pastures

LABELED CROPS: Any grass (Gramineae family), except Corn, Sorghum, Sugarcane and those listed in the “CEREAL AND GRAIN CROPS” section of this label, but including Bahiagrass; Bermudagrass; Bluegrass; Brome; Fescue; Guineagrass; Kikuyugrass; Orchardgrass; Pangola grass; Ryegrass; Timothy; Wheatgrass

TYPES OF APPLICATION: Preplant; Preemergence; Pasture Renovation; Spot Treatment; Wiper Applicator; Postemergence Weed Control (broadcast application)

Preplant, Preemergence, Pasture Renovation

USE INSTRUCTIONS: This product may be applied for weed control prior to planting or emergence of forage grasses. This product may also be applied to control perennial pasture species listed on this label prior to re-planting.

RESTRICTIONS: If application rates total 2 quarts of this product per acre or less, no waiting period between application and feeding or livestock grazing is required. If the rate is greater than 2 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

Spot Treatment, Wiper Applicator

USE INSTRUCTIONS: This product may be applied in pastures as a spot treatment or over the top of desirable grasses using a wiper applicator to control tall weeds. To achieve maximum performance, remove domestic livestock before application and wait a minimum of 7 days after application before grazing livestock or harvesting for feed. Application may be repeated in the same area at 30-day intervals. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS: For spot treatment or use with a wiper applicator at rates of 2 quarts per acre or less, this product may be applied over the entire pasture or any portion of it. At rates above 2 quarts per acre, this product may be applied over no more than 10 percent of the total pasture at any one time.

11.5 Rangeland

TYPES OF APPLICATION: Postemergence

USE INSTRUCTIONS: This product will control or suppress many annual weeds growing in perennial cool- and warm-season grass rangeland. Slight discoloration of the desirable grasses could occur, but will re-green and resume growing under moist soil conditions as effects of this product wear off.

Preventing seed production is critical to the control of invasive annual grassy weeds on rangeland. Follow-up applications in sequential years can be used to eliminate most of the viable seeds. Delay grazing areas after application to allow desirable perennials to grow, flower and re-seed the area.

Apply 8 to 11 fluid ounces of this product per acre to control or suppress many weeds, including downy brome, cheatgrass, cereal rye and jointed goatgrass in rangelands.

For control of medusahead, apply 11 fluid ounces of this product per acre at the 3-leaf stage. Delaying application beyond this stage will result in reduced or unacceptable control. Controlled burning prior to application can be useful in eliminating the thatch layer produced by slowly decaying culms. Allow new growth to occur before applying this product.
product after a burn. Repeat applications in subsequent years are necessary to eliminate
the seed bank before re-establishing desirable perennial grasses in medusahead-
dominated rangeland.

RESTRICTIONS: Do not apply more than 2 quarts of this product per acre per year. Do
not use ammonium sulfate when applying this product on rangeland grasses. No waiting
period between application and feeding or livestock grazing is required.

12.0 ROUNDUP READY CROPS

ROUNDUP READY CROPS CONTAIN A PATENTED GENE THAT PROVIDES TOLERANCE TO
GLYPHOSATE, THE ACTIVE INGREDIENT IN THIS PRODUCT. THIS PRODUCT WILL CAUSE
SEVERE CROP INJURY OR DESTRUCTION AND YIELD LOSS IF APPLIED TO CROPS THAT
ARE NOT GLYPHOSATE TOLERANT. AVOID CONTACT OF THIS PRODUCT WITH FOLIAGE,
GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS THAT DO NOT CONTAIN
A GLYPHOSATE-TOLERANCE GENE, AS SEVERE PLANT INJURY OR DESTRUCTION WILL
RESULT. Information on Roundup Ready crops can be obtained from your seed supplier
or Monsanto Company representative. Roundup Ready crops must be purchased from
an authorized licensed seed supplier.

The directions for use in the sections that follow, or those published separately on
supplemental labeling for this product, include all applications of this product that may be
made onto a specified Roundup Ready crop during the complete cropping season. DO NOT
combine these directions for use with the directions for use with the same crops listed in the “ANNUAL AND PERENNIAL CROPS” and “PASTURE GRASSES, FORAGE LEGUMES AND
RANGELANDS” sections of this label, which do not contain a glyphosate-tolerance gene.

NOTE: Roundup Ready seed and the method of selectively controlling weeds in a
Roundup Ready crop are protected under several U.S. Patents, including 5,352,605 and
5,633,435. A license to use Roundup Ready seed must be obtained prior to planting.
Monsanto Company retains ownership of the gene and process technologies, and the
Purchaser of the seed receives the right to use the licensed genes and technologies
subject to the limited use license conditions. Seed containing a Roundup Ready trait
cannot be used for research and demonstration, reverse engineering or in connection
with herbicide registration. Progeny seed containing a Roundup Ready trait may not
be saved for replanting or transferred to others for replanting. Contact your Authorized
Monsanto Retailer for information on obtaining a limited use license.

USE INSTRUCTIONS: Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL
WEEDS RATE SECTION” of this label for application rates for specific weeds. When
applied as directed, this product will control the annual and perennial grasses and
broadleaf weeds listed. Observe the maximum application rates and crop stage timings
specified for individual Roundup Ready crops in the sections that follow.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and
free of pesticide residue before being used to apply this product. Follow the cleaning
procedures specified on the label of the product(s) previously used. THOROUGHLY
CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL
CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS
PRODUCT.

ATTENTION: AVOID DRIFT. USE EXTREME CARE WHEN APPLYING THIS PRODUCT
TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS THAT DO NOT CONTAIN A
GLYPHOSATE-TOLERANCE GENE.

Ground Broadcast Application – Apply this product in 5 to 20 gallons of spray solution
per acre. Select proper nozzles and spray pressure settings to avoid spraying a fine mist.
For best results with ground application equipment, use flat-fan nozzles. Check for even
distribution of spray droplets.

Aerial Application – Unless otherwise prohibited, all applications of this product
described in this section may be made using aerial application equipment, where
appropriate, provided that the applicator complies with the precautions and restrictions
specified on this label and on all supplemental labeling published separately for this
product. Apply this product in 3 to 15 gallons of water per acre. See the “APPLICATION
EQUIPMENT AND TECHNIQUES” section of this label for important information on
aerial application and procedures for avoiding spray drift that could cause injury to any
vegetation not intended for application. Use of appropriate buffer zones will help prevent
injury to adjacent vegetation.

See the “MIXING” and “APPLICATION EQUIPMENT AND TECHNIQUES” sections of this
label for additional directions and restrictions on the application of this product.

TANK MIXTURES: Tank mixtures of this product with other herbicides, insecticides,
fungicides, micronutrients or foliar fertilizers could result in reduced weed control or crop
injury when applied over the top of Roundup Ready crops. Read the label of all products
used in the tank mixture prior to use to determine the potential for crop injury. Always
read and follow label directions for all products in the tank mixture. Use all products
according to rates and timing specified on the product label. Always predetermine the
compatibility of tank-mix products together in the carrier by mixing small proportional
quantities in advance. Monsanto Company has not tested all tank-mix product
formulations for compatibility, antagonism or product performance. Buyer and all users
are responsible for any and all loss or damage in connection with the use or handling of
mixtures of this product with herbicides or other materials that are not specifically listed
on this label or on separate supplemental labeling or Fact Sheets for this product. See
the “MIXING” section of this label for more information on tank mixtures.
Ammonium sulfate may be added to spray solutions of this product for application to Roundup Ready crops. Refer to the “MIXING” section of this label for instructions on the use of ammonium sulfate.

NOTE: The following use directions are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, apply this product as a preplant burndown application to control existing weeds prior to crop emergence. Some weeds, such as black nightshade, broadleaf signalgrass, sicklepod, Texas panicum, sandbur, annual morning glory, woolly cupgrass, shattercane, wild proso millet, burcucumber, and giant ragweed with multiple germination times, or suppressed (stunted) weeds, might require a second application of this product for complete control. Make second application after some re-growth has occurred and a minimum of 10 days after a previous application of this product.

Application rates of this product specified on this label for the control of tough weeds, or those specified on separate supplemental labeling for this product, supersede rates in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Additional information on the control of tough weeds can be found on Fact Sheets published for this product.

REstrictions: Observe the maximum application rates stated throughout this label. Maximum application rates apply to the use of this product combined with the use of any and all other herbicides containing glyphosate, whether applied separately or as mixtures. Calculate the application rates (glyphosate acid equivalents) and ensure that the total use of this and other glyphosate-containing products does not exceed the stated maximum rate. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates. When applying this product as a tank mixture with one or more products, refer to each individual tank-mix product label for restrictions and apply the tank mixture in accordance with the most restrictive statements for each product in the tank mixture.

12.1 Roundup Ready Alfalfa

Types of application: Preplant; At-planting; Preemergence; Postemergence (In-crop)

Use instructions: Refer to the following table for the maximum application rates of this product.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications,</td>
<td>5.3 quarts per acre</td>
</tr>
<tr>
<td>including Preplant during year of establishment</td>
<td></td>
</tr>
<tr>
<td>Preplant, At-planting and Preemergence single application</td>
<td>44 fluid ounces per acre</td>
</tr>
<tr>
<td>Combined total per year for In-crop application on</td>
<td>4.1 quarts per acre</td>
</tr>
<tr>
<td>newly established and established stands</td>
<td></td>
</tr>
</tbody>
</table>

See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

Preplant, At-planting, Preemergence

Use instructions: This product may be applied before, during or after planting Roundup Ready alfalfa.

Postemergence (In-crop)

Use instructions: This product may be applied over the top of Roundup Ready alfalfa (in-crop) from emergence until 5 days prior to cutting. To maximize crop yield and quality potential of the forage and hay, apply this product after weeds have emerged, but before alfalfa growth or re-growth interferes with spray coverage of the target weeds.

Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label for application rates for specific weeds. When applied as directed, this product will control the annual and perennial grasses and broadleaf weeds listed. This product will also suppress or control the parasitic weed dodder (Cuscuta spp.) in Roundup Ready alfalfa. More than one application might be necessary for complete control.

New Stand Establishment (Seeding Year) – Due to the biology and breeding constraints of alfalfa, up to 10 percent of the seedlings will not contain a Roundup Ready gene and will not survive after the first application of this product. To eliminate the undesirable effects of stand gaps created by this loss of plants, make a single application of at least 22 fluid ounces of this product per acre at or before the 4-trifoliate growth stage. Refer to the following table for application rates during stand establishment (seeding year).
Assure II; Poast; Prism; Pursuit; Raptor; SelectMAX; clethodim; imazamox; imazethapyr; sethoxydim; quizalofop p-ethyl

Do not include crop oil concentrate or methylated seed oil in tank mixtures of this product with Pursuit or Raptor as unsatisfactory crop injury could result.

Dormant alfalfa: For control of emerged annual grasses and broadleaf weeds when alfalfa is dormant, this product may be applied at up to 44 fluid ounces per acre in a tank mixture with the following herbicides when daily temperatures remain above freezing.

Kerb 50-W; Lexone; Pursuit; Raptor; Sencor; imazamox; imazethapyr; metribuzin; pronamide; propyzamide

Do not include crop oil concentrate or methylated seed oil in tank mixtures of this product with Pursuit or Raptor as unsatisfactory crop injury could result.

PRECAUTIONS: Where Roundup Ready alfalfa is grown with a companion or cover crop, or is over-seeded with a second species, in-crop (over-the-top) application of this product will eliminate the non-Roundup Ready (non-glyphosate-tolerant) species.

RESTRICTIONS: Do not exceed 44 fluid ounces per acre for any single in-crop application of this product. Sequential applications of this product must be a minimum of 7 days apart. The combined total per year for all in-crop applications in both newly established (seeding year) and established stands (non-seeding year) must not exceed 4.1 quarts (132 fluid ounces) per acre. Do not apply to frozen or snow covered ground. Remove domestic livestock before application. Wait a minimum of 5 days after application before grazing, or cutting or feeding of forage and hay.

12.2 Roundup Ready Canola (Spring Varieties)

Roundup Ready spring canola is defined as those Roundup Ready canola varieties that are seeded in the spring and harvested in the fall and do not enter a winter dormancy period.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Postemergence (In-crop) in Hybrid Seed Production Only

USE INSTRUCTIONS: Refer to the following table for the maximum application rates for this product with spring varieties of Roundup Ready canola.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
</tr>
<tr>
<td>Total of all In-crop applications from emergence to 6-leaf stage</td>
</tr>
</tbody>
</table>
See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. The “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready spring canola.

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 44 fluid ounces per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied postemergence (in-crop) to spring varieties of Roundup Ready canola from emergence through the 6-leaf stage of development, unless otherwise directed. Application made during bolting or flowering could result in crop injury and yield loss. To maximize yield potential, eliminate competing weeds early.

Single Application — Apply 11 to 16 fluid ounces of this product per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications as this could result in temporary yellowing, delayed flowering, and/or growth reduction. Similar crop injury could result when more than 11 fluid ounces per acre is applied after the 4-leaf stage.

Sequential Application — Apply 11 fluid ounces of this product per acre to 1- to 3-leaf canola followed by a sequential application at a minimum interval of 10 days, but no later than the 6-leaf stage. Sequential application works best for control of early emerging annual and perennial weeds, such as Canada thistle and quackgrass, or whenever more than one application is needed for adequate weed control.

RESTRICTIONS: No more than two in-crop (over-the-top) broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total in-crop application must not exceed 22 fluid ounces of this product per acre. Allow a minimum of 60 days between application and canola harvest.

Postemergence (In-crop) in Hybrid Seed Production Only

THIS POSTEMERGENCE APPLICATION IS FOR USE ONLY IN HYBRID CANOLA SEED PRODUCTION OF BOTH SPRING AND WINTER VARIETIES. DO NOT MAKE THIS APPLICATION ON CANOLA GROWN FOR FOOD OR FEED.

This product may be applied at a rate of between 11 and 22 fluid ounces per acre from emergence until pollination is complete or near completion for the control of non-glyphosate-tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both a Roundup Ready canola line(s) and a non-glyphosate tolerant line(s). Sequential applications may be made for the control of non-glyphosate-tolerant pollen parental lines up to a maximum total application rate of 22 fluid ounces per acre.

RESTRICTIONS: Allow a minimum of 5 days between sequential applications. Maximum total application rate of this product for ALL postemergence (in-crop) applications in hybrid canola seed production fields, including application for weed control and control of non-glyphosate-tolerant canola, is 22 fluid ounces per acre.

### 12.3 Roundup Ready Canola (Winter Varieties)

Roundup Ready winter canola is defined as those Roundup Ready canola varieties that are seeded in early fall and harvested the following spring or summer. Winter canola varieties are intended to enter a cold period dormancy in the winter.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop)

USE INSTRUCTIONS: Refer to the following table for the maximum application rates of this product with winter varieties of Roundup Ready canola.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th>44 fluid ounces per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td></td>
</tr>
<tr>
<td>Total of all In-crop applications from emergence to canopy closure or prior to bolting in the spring</td>
<td></td>
</tr>
</tbody>
</table>

See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for information on Maximum Application Rates.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready winter canola.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied to winter varieties of Roundup Ready canola from emergence to canopy closure in the fall and prior to bolting in the spring. Application made during or after bolting could result in crop injury and yield loss. To maximize yield potential, eliminate competing weeds early.

Some weeds with multiple germination times, or suppressed (stunted) weeds, or weeds that have overwintered, might require a sequential application of this product for control. Make the second application after some re-growth has occurred and a minimum of 60 days after the initial application of this product.
12.4 Field Corn Hybrids with Roundup Ready 2 Technology

Field corn hybrids with Roundup Ready 2 Technology include Roundup Ready Corn 2 and field corn seed products displaying the Roundup Ready 2 Technology logo.

The directions for use in this section refer only to FIELD CORN hybrids with Roundup Ready 2 Technology. For directions for use on SWEET CORN hybrids that contain Roundup Ready 2 Technology, see the “Sweet Corn Hybrids with Roundup Ready 2 Technology” section of this label.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Spot Treatment; Preharvest; Post-Harvest

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with field corn hybrids with Roundup Ready 2 Technology.
RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season. Application of 2,4-D or dicamba must be made a minimum of 7 days prior to planting corn.

NOTE: For maximum weed control, make a postemergence (in-crop) application of this product following application of a preemergence residual product listed above.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied alone or in a tank-mix over the top of field corn hybrids with Roundup Ready 2 Technology from emergence through the V8 stage (8 leaves with collars), or until corn plant height reaches 30 inches (free standing), whichever comes first, unless otherwise directed. Use drop nozzles for optimum spray coverage and weed control when corn plant height is 24 to 30 inches. When corn plants are 30 to 48 inches tall (free standing), apply this product using only ground application equipment fitted with drop nozzles aligned to avoid spraying into the whorls of the corn plants. Maximum single in-crop application rate of this product up to 48-inch field corn is 32 fluid ounces per acre. Total in-crop application of this product from corn plant emergence through 48 inches in height must not exceed 64 fluid ounces per acre.

When applied as directed, this product will control annual grasses and broadleaf weeds listed on this label. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Make a postemergence application of 16 to 22 fluid ounces of this product per acre before weeds exceed 4 inches in height (before they become competitive with the crop). Repeat this application before new flushes of weeds exceed 4 inches in height.

TANK MIXTURES: This product may be tank-mixed with the following products. Ensure that the product used is labeled for application postemergence (in-crop) to field corn. Read and follow label directions for all products in the tank mixture.

<table>
<thead>
<tr>
<th>Tank-mix Partner</th>
<th>Maximum Height of Corn At Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree</td>
<td>11 inches</td>
</tr>
<tr>
<td>Degree Xtra</td>
<td></td>
</tr>
<tr>
<td>Harness</td>
<td></td>
</tr>
<tr>
<td>Harness Xtra</td>
<td></td>
</tr>
<tr>
<td>Harness Xtra 5.6L</td>
<td></td>
</tr>
<tr>
<td>Bullet*</td>
<td>5 inches</td>
</tr>
<tr>
<td>Micro-Tech*</td>
<td></td>
</tr>
<tr>
<td>atrazine</td>
<td>12 inches</td>
</tr>
</tbody>
</table>

* Bullet and Micro-Tech herbicides are not registered for use as a postemergence application in Texas.

RESTRICTIONS: Allow a minimum of 10 days between in-crop applications of this product. Allow a minimum of 50 days between application of this product and harvest of corn forage or grain.

Preharvest

USE INSTRUCTIONS: Apply up to 22 fluid ounces of this product per acre for annual and perennial weed control prior to harvest when kernel fill is complete and the corn is physiologically mature (black layer formed) and grain moisture is 35 percent or less.

RESTRICTIONS: A preharvest application may be made only if the combined total of previously applied over-the-top or drop nozzle applications does not exceed 44 fluid ounces of this product per acre. Allow a minimum of 7 days between application and harvest or feeding of corn stover or grain.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after crop harvest. Higher rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in field corn. Read and follow label directions for all products in the tank mixture.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest or the feeding of vegetation within the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.
12.5 Sweet Corn Hybrids with Roundup Ready 2 Technology

Sweet corn hybrids with Roundup Ready 2 Technology include Roundup Ready Sweet Corn and sweet corn seed products displaying the Roundup Ready 2 Technology logo. The directions for use in this section refer only to SWEET CORN hybrids with Roundup Ready 2 Technology. For directions for use on FIELD CORN hybrids that contain Roundup Ready 2 Technology, see the “Field Corn Hybrids with Roundup Ready 2 Technology” section of this label.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop)

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with sweet corn hybrids with Roundup Ready 2 Technology.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
</tr>
<tr>
<td>Maximum single In-crop application rate up to 48-inch sweet corn</td>
</tr>
<tr>
<td>Total of all In-crop applications from emergence through 48-inch sweet corn</td>
</tr>
</tbody>
</table>

See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

PRECAUTIONS: The use of the in-crop (over-the-top) applications described in this section on other than sweet corn hybrids with Roundup Ready 2 Technology could cause crop injury and reduced yields.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied alone or in a tank mixture before, during or after planting sweet corn hybrids with Roundup Ready 2 Technology.

TANK MIXTURES: This product may be tank-mixed with one of the residual herbicide products listed below for maximum weed control. Ensure that the product used is labeled for application prior to emergence of sweet corn. Read and follow label directions for all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water, or in 10 to 60 gallons of nitrogen solution, per acre.

12.6 Roundup Ready Cotton

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Selective Equipment (In-crop); Preharvest

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with Roundup Ready cotton.

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: Apply this product alone or in a tank mixture over the top of sweet corn hybrids with Roundup Ready 2 Technology from emergence through the V8 stage (8 leaves with collars), or until sweet corn plant height reaches 30 inches (freestanding), whichever comes first. Use drop nozzles for optimum spray coverage and weed control when sweet corn plant height is 24 to 30 inches. When sweet corn plants of 30 to 48 inches tall (freestanding), apply this product using only ground application equipment fitted with drop nozzles aligned to avoid spraying into the whorls of the sweet corn plants. Avoid spraying if the crop has reached the reproductive stage. Maximum single in-crop application rate of this product up to 48-inch sweet corn is 44 fluid ounces per acre. Sequential in-crop application of this product from emergence through 48 inches in height must not exceed 4.1 quarts (132 fluid ounces) per acre per growing season.

When applied as directed, this product will control annual grasses and broadleaf weeds listed on this label. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Apply 16 to 22 fluid ounces of this product per acre before weeds exceed 4 inches in height or before they become competitive with the crop. If new flushes of weeds occur, a sequential application of 16 to 22 fluid ounces per acre may be made before weeds exceed 4 inches in height.

RESTRICTIONS: Allow a minimum of 10 days between in-crop applications of this product. Do not apply atrazine in a tank-mix with this product when sweet corn plants are greater than 12 inches tall. Allow a minimum of 30 days between application of this product and harvest of sweet corn forage or grain.
IN-CROP MUST BE A MINIMUM OF 10 DAYS APART AND COTTON MUST HAVE AT LEAST TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS. Over-the-top application made after the 4-leaf (node) stage of development could result in boll loss, delayed maturity and/or yield loss.

TANK MIXTURES: This product may be tank-mixed with the following products and applied over the top of Roundup Ready cotton up to the 4-leaf stage. Ensure that the product used is labeled for application postemergence (in-crop) to cotton. Read and follow label directions for all products in the tank mixture.

Assure II; Dual MAGNUM; Envoke; Fusilade; MSMA; PARRLAY; Poast Plus; Reflex; Select; Select MAX; Stalwart; Staple; Warrant; acetochlor; cethodim; fluazifop-P-butyl; fomesafen; metolachlor; s-metolachlor; monosodium acid methanearsonate; pyrithiobac-sodium; quizalofop-P-ethyl, sethoxydim; trifloxysulfuron-sodium

Staple could cause leaf yellowing and/or leaf crinkling when applied postemergence (in-crop) to Roundup Ready cotton.

Dual MAGNUM and Stalwart applied over the top of Roundup Ready cotton could cause leaf injury in the form of necrotic spotting.

Salvage Treatment — This application may be made after the 4-leaf stage of development and only when weeds threaten to cause the loss of the crop. Apply 22 fluid ounces of this product per acre either as an over-the-top application or as a post-directed application sprayed higher on the cotton plants and onto the weeds. NOTE: SALVAGE TREATMENT WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT MAY BE MADE PER GROWING SEASON.

IN THE STATE OF ARIZONA ONLY, up to 32 fluid ounces of this product may be applied per acre either as an over-the-top application or a post-directed application for salvage treatment.

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Selective Equipment (In-crop)

USE INSTRUCTIONS: This product may be applied using precision post-directed or hooded sprayers at rates of up to 22 fluid ounces per acre per application to Roundup Ready cotton through layby. At this stage, use post-directed application equipment to
ATTENTION: USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON. HOWEVER, DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS, IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN ACCORDANCE WITH THE LABEL DIRECTIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

12.7 Roundup Ready Flex Cotton

The directions for use of this product provided in this section are specific to and may only be used with varieties designated as Roundup Ready Flex cotton. Applications described in this section made over the top of cotton other than Roundup Ready Flex cotton will cause crop injury and reduced yields. DO NOT combine the directions for use in this section with those in the “Roundup Ready Cotton” section of this label, or with any other directions for use on Roundup Ready cotton or Roundup Ready Flex cotton on labeling for this or any other glyphosate-containing product. Drift of this product from an application made to Roundup Ready Flex cotton onto adjacent fields of post 4-leaf (node) Roundup Ready cotton could cause extensive crop injury, including boll loss, delayed maturity and/or yield loss.

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Preharvest

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with Roundup Ready Flex cotton.

<table>
<thead>
<tr>
<th>Type of Application</th>
<th>Maximum Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>5.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all In-crop applications from cracking to 60 percent open bolls</td>
<td>4.0 quarts per acre</td>
</tr>
<tr>
<td>Total of all In-crop applications between layby and 60 percent open bolls</td>
<td>44 fluid ounces per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from 60 percent open bolls to 7 days prior to harvest</td>
<td>44 fluid ounces per acre</td>
</tr>
<tr>
<td>Total of all In-crop applications from emergence through harvest</td>
<td>4 quarts per acre</td>
</tr>
</tbody>
</table>

PRECAUTIONS: Do not apply this product for preharvest weed control to cotton grown for seed, as a reduction in germination or vigor could occur. Buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on Roundup Ready cotton grown for seed.

RESTRICTIONS: Allow a minimum of 7 days between application and harvest of cotton. DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO ROUNDUP READY COTTON.
See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready Flex cotton.

TANK MIXTURES: This product may be tank-mixed with 2,4-D or Clarity and applied prior to planting only. This product may be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to emergence of cotton. Read and follow label directions for all products in the tank mixture.

Aim; Caparol; Cotoran; Cotton Pro; Dawn; Direx; Dual MAGNUM; Dual II MAGNUM; Karmex; Meturon; PARRLAY; Prowl; Prowl H₂O; Reflex; Sharpen; Stalwart; Staple; Valor; Warrant; Zorial; acetochlor; clomazone; diuron; fluometuron; flumioxazin; metolachlor; s-metolachlor; norflurozin; pendimethalin; prometryn; pyrithiobac-sodium; saflufenacil

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied to control annual grasses and broadleaf weeds listed on this label in Roundup Ready Flex cotton. To maximize yield potential, eliminate competing weeds early. Many perennial weeds will be controlled or suppressed with one or more applications of this product. Use an initial application rate of 22 fluid ounces per acre to control or suppress 1 to 3 inch tall annual grasses and broadleaf weeds. This product may be applied postemergence to Roundup Ready Flex cotton using ground application equipment at rates up to 32 fluid ounces per acre per application. In addition to broadcast application, post-directed spray equipment may be used to achieve more thorough weed coverage.

IN THE STATE OF ARIZONA ONLY, up to 44 fluid ounces of this product per acre may be applied per postemergence application using ground application equipment.

TANK MIXTURES: This product may be tank-mixed with the following products and applied postemergence (in-crop) over the top of Roundup Ready Flex cotton. Ensure that the product used is labeled for application postemergence (in-crop) to cotton. Read and follow label directions for all products in the tank mixture.

Assure II; Dual MAGNUM; Envoke; Fusilade; MSMA; PARRLAY; Poast Plus; Reflex; Select; Select MAX; Stalwart; Staple; Warrant; acetochlor; clethodim; fluazifop-P-butyl; fomesafen; metolachlor; s-metolachlor; monosodium acid methanearsonate; pyrithiobac-sodium; quizalofop-p-ethyl; sethoxydim; trifloxy sulfuron-sodium

Staple could cause leaf yellowing and/or leaf crinkling when applied postemergence (in-crop) in Roundup Ready Flex cotton.

Dual MAGNUM and Stalwart applied over the top of Roundup Ready Flex cotton could cause leaf injury in the form of necrotic spotting.

This product may be tank-mixed with the following products for in-crop application using precision post-directed or hooded sprayers. Ensure that the product used is labeled for application postemergence (in-crop) to cotton. Read and follow label directions for all products in the tank mixture.

Aim; Caparol; Chateau; Cotoran; Direx; Envoke; Layby-Pro; MSMA; PARRLAY; Prowl; Prowl H₂O; Staple; Valor; carfentrazone-ethyl; diuron; flumioxazin; fluometuron; linuron; metolachlor; monosodium acid methanearsonate; pendimethalin; prometryn; pyrithiobac-sodium; trifloxy sulfuron-sodium

Staple could cause leaf yellowing and/or leaf crinkling when applied postemergence (in-crop) in Roundup Ready Flex cotton.

RESTRICTIONS: The maximum single, in-crop application rate of this product to Roundup Ready Flex cotton using ground application equipment is 32 fluid ounces per acre, except in the State of Arizona where the maximum application rate is 44 fluid ounces per acre. In-crop application rates above 22 fluid ounces per acre made alone or with the addition of other crop chemical products containing surfactant could cause a crop response including leaf speckling or leaf necrosis. Do not exceed a maximum rate of 22 fluid ounces of this product per acre when using aerial application equipment. Between layby and 60 percent open bolls, the maximum combined total application rate of this product is 44 fluid ounces per acre. The combined total of all applications of this product made from crop emergence to 60 percent open bolls must not exceed 4.0 quarts per acre.

DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR OVER-THE-TOP APPLICATION TO ROUNDUP READY FLEX COTTON.

Preharvest

USE INSTRUCTIONS: Up to 44 fluid ounces of this product per acre may be applied to Roundup Ready Flex cotton for annual and perennial weed control prior to harvest after 60 percent boll crack.

NOTE: This product will not enhance the performance of harvest aids when applied to Roundup Ready Flex cotton.
RESTRICTIONS: Allow a minimum of 7 days between application and harvest of Roundup Ready Flex cotton. DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO ROUNDUP READY FLEX COTTON.

ATTENTION: USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY FLEX COTTON. HOWEVER, DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS, IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN ACCORDANCE WITH THE LABEL DIRECTIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

12.8 Roundup Ready Soybean

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Preharvest; Post-Harvest

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with Roundup Ready soybean.

<table>
<thead>
<tr>
<th></th>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>5.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all In-crop applications from cracking through flowering (R2 stage soybean)</td>
<td>64 fluid ounces per acre</td>
</tr>
<tr>
<td>Maximum preharvest application rate</td>
<td>22 fluid ounces per acre</td>
</tr>
</tbody>
</table>

See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready soybean.

TANK MIXTURES: This product may be tank-mixed with 2,4-D, Banvel or Clarity and applied prior to planting only. This product may be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to emergence of soybean. Read and follow label directions for all products in the tank mixture.

Aim; Assure II; Authority Assist; Authority First; Authority MTZ; Authority XL; Axiom; Boundary; Cadet; Canopy; Canopy EX; Classic; Cobra; Command; Command Xtra; Dawn; Dual MAGNUM; Dual II MAGNUM; FirstRate; Flexstar; Frontier; Fusion; Gangster; INTRRO; Linex; Lorox; Micro-Tech; Optill; Outlook; PARRLAY; Pendimax; Phoenix; Prowl; Prowl H₂O; Pursuit; Pursuit Plus; Python; Reflex; Resource; Rhythm; Scepter; Select; Select MAX; Sharpen; Spartan; Treflan; Valor; Valor XLT; alachlor; atrazine; carfentrazone-ethyl; chlorimuron ethyl; clethodim; clomazone; cloransulam-methyl; dimethenamid; dimethenamid-p; fenoxyprop; fluazifop-p-butyl; flufenacet; flumetsulam; flumiclorac pentyl ester; flumioxazin; fluthiacet-methyl; fomesafen; imazaquin; imazethapyr; lactofen; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; quizalofop-P-ethyl; saflufenacil; sulfentrazone; tribenuron methyl; trifluralin

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be used to control annual grasses and broadleaf weeds in Roundup Ready soybean from emergence (cracking) through flowering (R2 stage soybean). R2 stage soybean ends when a pod 5 millimeters (3/16 inch) long appears at one of the four uppermost nodes on the main stem with a fully developed leaf (R3 stage). Refer to the "ANNUAL WEEDS RATE SECTION" of this label for application rates for specific annual weeds. An initial application of 22 fluid ounces of this product per acre will control or suppress most 2- to 8-inch tall weeds. Weeds will be 2 to 8 inches tall approximately 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be applied up to 44 fluid ounces per acre as a single, in-crop application for control of annual weeds and where dense weed populations exist.

Application of 22 to 44 fluid ounces of this product per acre (single or multiple applications) will control or suppress perennial weeds, including bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horseenettle, marestail (horseweed), nutseed, quackgrass, rhizome johnsongrass, redvine, trumpet creeper, swamp smartweed and wirestem muhly. For best results, allow perennial weed species to achieve at least 6 inches of growth before applying this product.

Under adverse growing conditions, including drought, hail or wind damage, or a poor soybean stand that slows or delays canopy closure, a sequential application of this product might be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW
FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP. To control giant ragweed, apply 22 fluid ounces of this product per acre when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

TANK MIXTURES: This product may be tank-mixed with the following products and applied postemergence (in-crop) over the top of Roundup Ready soybean. Ensure that the product used is labeled for application postemergence (in-crop) to soybean. Read and follow label directions for all products in the tank mixture.

Arrow; Assure II; Basagran; Cadet; Classic; Cobra; Dawn; Extreme; FirstRate; Flexstar; Fusilade DX; Fusion; Harmony GT XP; Phoenix; Poast; Poast Plus; Pursuit; Pursuit Plus; Raptor; Reflex; Rhythm; Select; Select MAX; Synchrony STS; Targa; Ultra Blazer; Warrant; acetochlor; acifluorfen; bentazon; chlorimuron ethyl; clodethidom; cloransulam-methyl; fenoxaprop-P-ethyl; fluazifop-p-butyl; fluthiacet-methyl; fomesafen; imazamox; imazethapyr; lactofen; pendimethalin; quinazolone P-ethyl; sethoxydim; thifensulfuron-methyl

PRECAUTIONS: In some cases, these tank-mix products will cause visual soybean injury.

RESTRICTIONS: The combined total application of this product from crop emergence through harvest must not exceed 64 fluid ounces per acre. The maximum rate for any single in-crop application is 44 fluid ounces per acre. The maximum combined total amount of this product that may be applied during flowering (R2 stage soybean) is 44 fluid ounces per acre.

**Preharvest**

USE INSTRUCTIONS: Apply up to 22 fluid ounces of this product per acre to Roundup Ready soybean for weed control prior to harvest after pods have set and lost all green color. Take care to avoid excessive seed shatter loss due to ground application equipment.

RESTRICTIONS: Allow a minimum of 14 days between application and harvest of soybean grain or feeding of soybean grain, forage or hay.

**Post-Harvest**

USE INSTRUCTIONS: This product may be applied for weed control after harvest of Roundup Ready soybean. Higher rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for weed control application after harvest of soybean. Read and follow label directions for all products in the tank mixture.

RESTRICTIONS: Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

### 12.9 Roundup Ready 2 Yield Soybean

**TYPES OF APPLICATION:** Preplant; At-Planting; Preemergence; Postemergence (In-crop); Preharvest; Post-Harvest

**USE INSTRUCTIONS:** Refer to the following table for maximum application rates of this product with Roundup Ready 2 Yield soybean.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>5.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all In-crop applications from cracking through flowering (R2 stage soybean)</td>
<td>64 fluid ounces per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate</td>
<td>22 fluid ounces per acre</td>
</tr>
</tbody>
</table>

See the “ROUNDUP READY CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

**Preplant, At-Planting, Preemergence**

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready 2 Yield soybean.

TANK MIXTURES: This product may be tank-mixed with 2,4-D, Banvel or Clarity and applied prior to planting only. This product may be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to emergence of soybean. Read and follow label directions for all products in the tank mixture.

Aim; Assure II; Authority Assist; Authority First; Authority MTZ; Authority XL; Axiom; Boundary; Cadet; Canopy; Canopy EX; Classic; Cobra; Command; Command Xtra; Dawn; Dual MAGNUM; Dual II MAGNUM; FirstRate; Flexstar; Frontier; Fusion; Gangster; INTRO; Linex; Lorox; Micro-Tech; Optill; Outlook; PARRLAY; Pendimax; Phoenix; Prowl; Prowl H2O; Pursuit; Pursuit Plus; Python; Reflex; Resource; Rhythm; Scepter; Select; Select MAX; Sharpen; Spartan; Treflan; Valor; Valor XLT; alachlor; atrazine; carfentrazone-ethyl; chlorimuron ethyl; clodethidom; clomazone; cloransulam-methyl; dimethenamid; dimethenamid-p; fenoxaprop; fluazifop-p-butyl; flufenacet; flumetsulam; flumiclorac pentyl ester; flumioxazin; fluthiacet-methyl; fomesafen; imazamox; imazethapyr; lactofen; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; quinazolone P-ethyl; saflufenacil; sulfentrazole; tribenuron methyl; trifluralin
RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be used to control annual grasses and broadleaf weeds in Roundup Ready 2 Yield soybean from emergence (cracking) through flowering (R2 stage soybean). R2 stage soybean ends when a pod 5 millimeters (3/16 inch) long appears at one of the four uppermost nodes on the main stem with a fully developed leaf (R3 stage). Refer to the “ANNUAL WEEDS RATE SECTION” of this label for application rates for specific annual weeds. An initial application of 22 fluid ounces of this product per acre will control or suppress most 2- to 8-inch tall weeds. Weeds will be 2 to 8 inches tall approximately 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be applied up to 44 fluid ounces per acre as a single, in-crop application for control of annual weeds and where dense weed populations exist.

Application of 22 to 44 fluid ounce of this product per acre (single or multiple applications) will control or suppress perennial weeds, including bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsemettle, marestail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpet creeper, swamp smartweed and wirestem muhly. For best results, allow perennial weed species to achieve at least 6 inches of growth before applying this product.

Under adverse growing conditions, including drought, hail or wind damage, or a poor soybean stand that slows or delays canopy closure, a sequential application of this product might be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY 2 YIELD SOYBEAN CROP. To control giant ragweed, apply 22 fluid ounces of this product per acre when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

TANK MIXTURES: This product may be tank-mixed with the following products and applied postemergence (in-crop) over the top of Roundup Ready 2 Yield soybean. Ensure that the product used is labeled for application postemergence (in-crop) to soybean. Read and follow label directions for all products in the tank mixture.

Arrow; Assure II; Basagran; Cadet; Classic; Cobra; Dawn; Extreme; FirstRate; Flexstar; Fusilade DX; Fusion; Harmony GT XP; Phoenix; Poast; Poast Plus; Pursuit; Pursuit Plus; Raptor; Reflex; Rhythm; Select; Select MAX; Synchrony STS; Targa; Ultra Blazer; Warrant; acetochlor; acifluorfen; bentazon; chlorimuron ethyl; clethodim; cloransulam-methyl; fenoxaprop-p-ethyl; fluzifop-p-butyl; fluthiacet-methyl; fomesafen; imazamox; imazethapyr; lactofen; pendimethalin; quizalofop P-ethyl, sethoxydim; thifensulfuron-methyl

RESTRICTIONS: The combined total application of this product from crop emergence through harvest must not exceed 64 fluid ounces per acre. The maximum rate for any single in-crop application is 44 fluid ounces per acre. The maximum combined total amount of this product that may be applied during flowering (R2 stage soybean) is 44 fluid ounces per acre.

Preharvest

USE INSTRUCTIONS: Apply up to 22 fluid ounces of this product per acre to Roundup Ready 2 Yield soybean for weed control prior to harvest after pods have set and lost all green color. Take care to avoid excessive seed shatter loss due to ground application equipment.

RESTRICTIONS: Allow a minimum of 14 days between application and harvest of soybean grain or feeding of soybean grain, forage or hay.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of Roundup Ready 2 Yield soybean. Higher rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for weed control application after harvest of soybean. Read and follow label directions for all products in the tank mixture.

RESTRICTIONS: Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

12.10 Roundup Ready Sugarbeet

TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop)

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with Roundup Ready sugarbeet.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th>5.3 quarts per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td></td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total of all applications made from emergence to 8-leaf stage</td>
<td>56 fluid ounces per acre</td>
</tr>
<tr>
<td>Total of all applications made between 8-leaf stage and canopy closure</td>
<td>44 fluid ounces per acre</td>
</tr>
</tbody>
</table>
closure is 22 fluid ounces per acre. Allow a minimum of 30 days between application and sugarbeet harvest.

13.0 FARMSTEAD USES

TYPES OF USES: Farmstead Weed Control; Trim-and-Edge; Greenhouse/Shadehouse; Chemical Mowing; Cut Stump Application; Habitat Management

USE INSTRUCTIONS: Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label for application rates for specific weeds. When applied as directed, this product will control annual and perennial grasses and broadleaf weeds. Application rates of this product specified in the following sections or on separate supplemental labeling or Fact Sheets published for this product on how to control tough weeds supersede rates in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label.

13.1 Farmstead Weed Control, Trim-and-Edge

USE INSTRUCTIONS: This product may be used to control annual weeds, perennial weeds and woody brush found on any part of the farmstead, including around building foundations and equipment storage areas, along and in fences, in dry ditches and canals, along ditch banks, driveways, farm roads, farmyards, fencerows, parking areas, rangeland, rights-of-way, shelterbelts, storage areas and prior to planting landscape ornamentals.

TANK MIXTURES: This product may be tank-mixed with the following products and applied prior to crop emergence. Ensure that the product used is labeled for application prior to emergence of sugarbeet. Read and follow label directions for all products in the tank mixture.

Assure II; Betamix; Betanex; Dual MAGNUM; Nortron SC; Outlook; Progress; Select; Stinger; Upbeet; clethodim; clopyralid; desmedipham; dimethenamid-P; ethofumesate; s-metolachlor; phenmedipham; quizalofop-p-ethyl; trisulfuron-methyl

Betamix, Betanex, Nortron SC and Progress can cause significant sugarbeet injury. Refer to these product labels for crop injury precautions.

RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied over the top of Roundup Ready sugarbeet for control of annual grasses and broadleaf weeds from emergence to 30 days prior to harvest. To maximize yield potential, eliminate competing weeds early. Up to 4 applications of this product may be made with a minimum of 10 days between each application. This product will control or suppress most perennial weeds. For some perennial weeds, repeat applications might be required to eliminate crop competition throughout the growing season. Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label for application rates for specific weeds.

TANK MIXTURES: This product may be tank-mixed with the following products and applied postemergence (in-crop) over the top of Roundup Ready sugarbeet. Ensure that the product used is labeled for application postemergence (in-crop) to sugarbeet. Read and follow label directions for all products in the tank mixture.

Assure II; Betamix; Betanex; Dual MAGNUM; Nortron SC; Outlook; Progress; Select; Stinger; Upbeet; clethodim; clopyralid; desmedipham; dimethenamid-P; ethofumesate; s-metolachlor; phenmedipham; quizalofop-p-ethyl; trisulfuron-methyl

For annual weeds, apply 22 fluid ounces of this product per acre when weeds are less than 6 inches tall, 32 fluid ounces per acre when weeds are 6 to 12 inches tall, and 44 fluid ounces per acre when weeds are greater than 12 inches tall. For perennial weeds, apply 44 fluid ounces to 3.3 quarts per acre in a tank-mix with one of the products listed here. For application of tank mixtures using a backpack sprayer, handgun or other handheld applicator, see the “ANNUAL WEEDS RATE SECTION” of this label under “Annual Weeds—Handheld and Backpack Sprayers” for the required concentration of this product in the mix.
13.2 Greenhouse/Shadehouse

USE INSTRUCTIONS: This product may be used to control weeds in and around greenhouses and shadehouses.

PRECAUTIONS: Remove desirable vegetation before applying this product inside a greenhouse or shadehouse.

RESTRICTIONS: Turn air circulation fans off when applying this product inside a greenhouse or shadehouse until the application solution has dried. Do not use inside residential greenhouses.

13.3 Chemical Mowing

USE INSTRUCTIONS: This product may be used to suppress growth of perennial grasses listed in this section along farm ditches and on any other part of the farmstead to serve as a substitute for mowing. Apply 4 fluid ounces of this product per acre to suppress Kentucky bluegrass, tall fescue, fine fescue, orchardgrass, bahiagrass or quackgrass covers, or 11 fluid ounces to suppress bermudagrass, or 44 fluid ounces to suppress torpedograss or paragrass. Make all applications in 10 to 20 gallons of spray solution per acre.

PRECAUTIONS: Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

13.4 Cut Stump Application

TYPES OF USES: Treating cut stumps on any terrestrial site

USE INSTRUCTIONS: This product may be used to control re-growth and re-sprouting of many species of woody brush and trees. Cut the woody brush or tree close to the soil surface and immediately apply a 50- to 100-percent (undiluted) solution of this product to the freshly cut surface using application equipment capable of covering the entire cambium. A delay in application could result in reduced performance. For best results, cut the woody brush or tree during period of active growth and full leaf expansion and apply this product. Some of the species controlled by this product and method of application are:

- Alder
- Oak
- Reed, giant
- Tan oak
- Eucalyptus
- Pepper, Brazilian
- Saltcedar
- Willow
- Madrone
- Pine, Austrian
- Sweetgum

PRECAUTIONS: Do not make a cut stump application when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Some sprouts, stems, or trees can share a common root system. Adjacent trees having a similar age, height and spacing could be an indicator of a shared root system. Whether grafted or shared, injury is likely to occur to adjacent stems or trees when this product is applied to one or more trees sharing a common root system.

13.5 Habitat Management

TYPES OF USES: Habitat Restoration and Maintenance; Wildlife Food Plots

Habitat Restoration and Maintenance

USE INSTRUCTIONS: This product may be used to control exotic and other undesirable vegetation in habitat management areas. Application may be made to allow recovery of native plant species or prior to planting desirable native species, and for similar broad-spectrum vegetation control requirements in habitat management areas. Spot treatment may be used to selectively remove unwanted plants for habitat maintenance and enhancement.

Wildlife Food Plots

USE INSTRUCTIONS: This product may be used to eliminate annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait a minimum of 7 days after application before tillage.

RESTRICTIONS: There are no rotational restrictions for planting any wildlife food species or for allowing native species to repopulate the area following application of this product.

14.0 ANNUAL WEEDS RATE SECTION

When water carrier volumes are between 16 and 40 gallons per acre for ground application, and between 6 and 15 gallons per acre for aerial application, the following use rates will control the annual weeds listed in the “ANNUAL WEEDS RATE TABLE” that follows:

- 22 fluid ounces per acre – grass and broadleaf annual weeds less than 6 inches in height or circumference, and vines less than 3 inches in length.
- 32 fluid ounces per acre – grass and broadleaf annual weeds 6 to 12 inches in height or circumference, and vines 3 to 6 inches in length.
- 44 fluid ounces per acre – grass and broadleaf annual weeds greater than 12 inches in height or circumference, and vines greater than 6 inches in length.
WHEN WATER CARRIER VOLUMES ARE BETWEEN 3 AND 15 GALLONS PER ACRE FOR GROUND APPLICATION, AND BETWEEN 3 AND 5 GALLONS PER ACRE FOR AERIAL APPLICATION, USE THE RATES SPECIFIED FOR INDIVIDUAL WEEDS AS FOLLOWS IN THE “ANNUAL WEEDS RATE TABLE.”

Apply to actively growing annual weeds. Annual weeds are often easiest to control when they are small.

Older, mature (hardened) and otherwise tough to control annual weed species could require higher rates than specified in this table to be controlled, even if they meet the size requirements listed. This product may be applied at rates of up to 44 fluid ounces per acre for tough-to-control annual weeds and where dense weed populations exist. Follow all precautions and restrictions, including maximum application rates and crop stage timings specified in the directions for use on specific crops, including Roundup Ready crops, and use sites listed on this label.

Maximum size refers to the maximum plant height, length of runners for vines or circumference of rosette plants in inches.

Do not tank-mix this product with soil residual herbicides when using these rates unless otherwise directed.

For weeds that have been mowed, grazed or cut, allow re-growth to occur prior to application of this product.

### ANNUAL WEEDS RATE TABLE

<table>
<thead>
<tr>
<th>WEED SPECIES</th>
<th>Broadcast Application Rate (fluid ounces per acre)</th>
<th>Maximum Height/Length (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11 16 22 27 32</td>
<td></td>
</tr>
<tr>
<td>Ammannia, purple</td>
<td>3 6 12 - - -</td>
<td>18</td>
</tr>
<tr>
<td>Anoda, spurred</td>
<td>- 2 3 5 8</td>
<td></td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>18 18+ - - -</td>
<td></td>
</tr>
<tr>
<td>Bassia, fivehook</td>
<td>- - 6 - - -</td>
<td></td>
</tr>
<tr>
<td>Beggarweed, Florida</td>
<td>- 5 8 - - -</td>
<td></td>
</tr>
<tr>
<td>Bittercress</td>
<td>12 20 - - -</td>
<td></td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>10 - - - -</td>
<td></td>
</tr>
<tr>
<td>Bluegrass, bulbous</td>
<td>6 - - - -</td>
<td></td>
</tr>
<tr>
<td>Brome, downy1-2</td>
<td>6 12 24 - -</td>
<td></td>
</tr>
<tr>
<td>Brome, Japanese</td>
<td>6 12 24 - -</td>
<td></td>
</tr>
<tr>
<td>Browntop panicum</td>
<td>6 8 12 24 - -</td>
<td></td>
</tr>
<tr>
<td>Buckwheat, wild3</td>
<td>- 1 2 - -</td>
<td>24</td>
</tr>
<tr>
<td>Burcucumber</td>
<td>- 6 12 - -</td>
<td>18</td>
</tr>
<tr>
<td>Buttercup</td>
<td>12 20 - - -</td>
<td></td>
</tr>
<tr>
<td>Carolina geranium</td>
<td>- - 4 - 9</td>
<td></td>
</tr>
<tr>
<td>Carpetweed</td>
<td>- 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Cheat2</td>
<td>6 20 - - -</td>
<td></td>
</tr>
<tr>
<td>Chervil</td>
<td>20 - - - -</td>
<td></td>
</tr>
<tr>
<td>Chickweed</td>
<td>- 12 18 - -</td>
<td></td>
</tr>
<tr>
<td>Cocklebur</td>
<td>12 18 24 - 36</td>
<td></td>
</tr>
<tr>
<td>Copperleaf, hophornbeam</td>
<td>- 2 4 - 6</td>
<td></td>
</tr>
<tr>
<td>Copperleaf, Virginia</td>
<td>- 2 4 - 6</td>
<td></td>
</tr>
<tr>
<td>Coreopsis, plains</td>
<td>- 6 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Corn, volunteer</td>
<td>6 12 20 - -</td>
<td></td>
</tr>
<tr>
<td>Corn speedwell</td>
<td>12 - - - -</td>
<td></td>
</tr>
<tr>
<td>Crabgrass</td>
<td>3 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Crowfootgrass</td>
<td>- - 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Cutleaf evening primrose</td>
<td>- - 3 - 6</td>
<td></td>
</tr>
<tr>
<td>Devilsclaw (unicorn plant)</td>
<td>- 3 6 - -</td>
<td></td>
</tr>
<tr>
<td>Dwarfdandelion</td>
<td>12 - - - -</td>
<td></td>
</tr>
<tr>
<td>Eastern mannagrass</td>
<td>8 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Eclipta</td>
<td>- 4 8 12 - 12</td>
<td></td>
</tr>
<tr>
<td>Fall panicum</td>
<td>4 - 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Falseclover</td>
<td>10 - - - -</td>
<td></td>
</tr>
<tr>
<td>Falseflax, smallseed</td>
<td>12 - - - -</td>
<td></td>
</tr>
<tr>
<td>Fiddleneck</td>
<td>- 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Field pennycress</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Filaree</td>
<td>- - 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Fleabane, annual</td>
<td>6 20 - - -</td>
<td></td>
</tr>
<tr>
<td>Fleabane, hairy*</td>
<td>(Conyza bonariensis)</td>
<td>- - 6 - 10</td>
</tr>
<tr>
<td>Fleabane, rough</td>
<td>3 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Florida pusley</td>
<td>- - 4 - 6</td>
<td></td>
</tr>
<tr>
<td>Foxtail, giant, bristly, yellow</td>
<td>6 12 20 - -</td>
<td></td>
</tr>
<tr>
<td>Foxtail, Carolina</td>
<td>10 - - - -</td>
<td></td>
</tr>
<tr>
<td>Foxtail, green</td>
<td>12 - - - -</td>
<td></td>
</tr>
<tr>
<td>Goatgrass, jointed</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Goosegrass</td>
<td>- 3 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Grain sorghum (milo)</td>
<td>6 12 20 - 12</td>
<td></td>
</tr>
<tr>
<td>Groundcherry</td>
<td>- 3 6 - 9</td>
<td></td>
</tr>
<tr>
<td>Groundsel; common, cressleaf</td>
<td>- 6 10 - -</td>
<td></td>
</tr>
<tr>
<td>Hemp sesbania</td>
<td>- 2 4 6 8</td>
<td></td>
</tr>
<tr>
<td>Henbit</td>
<td>- - 6 - 12</td>
<td></td>
</tr>
</tbody>
</table>
### ANNUAL WEEDS RATE TABLE (Cont’d.)

<table>
<thead>
<tr>
<th>WEED SPECIES</th>
<th>Broadcast Application Rate (fluid ounces per acre)</th>
<th>Maximum Height/Length (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horseweed/ Marestail*</td>
<td>11 16 22 27 32</td>
<td>Horseweed/ Marestail* 6 12 - 18</td>
</tr>
<tr>
<td>(Conyza canadensis)</td>
<td></td>
<td>Itchgrass 6 8 12 - 18</td>
</tr>
<tr>
<td>Jimsonweed</td>
<td>- - 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Johnsongrass, seedling*</td>
<td>6 12 18 - 24</td>
<td></td>
</tr>
<tr>
<td>Junglerice</td>
<td>- 3 6 7 9</td>
<td></td>
</tr>
<tr>
<td>Knotweed</td>
<td>- 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Kochia*</td>
<td>3 to 6 12 -</td>
<td></td>
</tr>
<tr>
<td>Lambsquarters</td>
<td>- 6 12 - 20</td>
<td></td>
</tr>
<tr>
<td>Little barley</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>London rocket</td>
<td>6 - 24 - -</td>
<td></td>
</tr>
<tr>
<td>Mayweed</td>
<td>2 6 12 18</td>
<td></td>
</tr>
<tr>
<td>Morning glory, annual</td>
<td>- - 3 - 6</td>
<td></td>
</tr>
<tr>
<td>(Ipomoea spp)</td>
<td></td>
<td>Morning glory, annual</td>
</tr>
<tr>
<td>Mustard; blue, tansy, tumble, wild</td>
<td>6 12 18 - -</td>
<td></td>
</tr>
<tr>
<td>Nightshade, black, hairy</td>
<td>4 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Oats</td>
<td>3 6 18 - -</td>
<td></td>
</tr>
<tr>
<td>Pigweed, Palmer*</td>
<td>- 12 18 24 -</td>
<td></td>
</tr>
<tr>
<td>Pigweed species*</td>
<td>- 12 18 24 -</td>
<td></td>
</tr>
<tr>
<td>Prickly lettuce</td>
<td>- 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Purslane</td>
<td>- 3 - 6</td>
<td></td>
</tr>
<tr>
<td>Ragweed, common*</td>
<td>6 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Ragweed, giant*</td>
<td>6 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Red rice</td>
<td>- 4 - -</td>
<td></td>
</tr>
<tr>
<td>Rye, volunteer/cereal</td>
<td>6 18 18+ - -</td>
<td></td>
</tr>
<tr>
<td>Rye grass species*</td>
<td>- 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Sandbur, field</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Sandbur, longspine</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Shattercane</td>
<td>6 12 20 - -</td>
<td></td>
</tr>
<tr>
<td>Shepherd’s-purse</td>
<td>6 12 - - -</td>
<td></td>
</tr>
<tr>
<td>Sickelgrass, broadleaf</td>
<td>- 3 6 7 9</td>
<td></td>
</tr>
<tr>
<td>Smartweed, ladysthumb</td>
<td>- 6 - 9</td>
<td></td>
</tr>
<tr>
<td>Smartweed, Pennsylvania</td>
<td>- 6 - 9</td>
<td></td>
</tr>
<tr>
<td>Sowthistle, annual</td>
<td>- 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Spanishneedles</td>
<td>- 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Speedwell, purslane</td>
<td>12 - - - -</td>
<td></td>
</tr>
<tr>
<td>Sprangletop</td>
<td>6 12 20 - -</td>
<td></td>
</tr>
<tr>
<td>Spurge; prostrate, spotted</td>
<td>- 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Spurry, umbrella</td>
<td>6 - - - -</td>
<td></td>
</tr>
<tr>
<td>Stinkgrass</td>
<td>- 12 - -</td>
<td></td>
</tr>
<tr>
<td>Sunflower</td>
<td>12 18 - - -</td>
<td></td>
</tr>
<tr>
<td>Swinecress</td>
<td>5 12 - -</td>
<td></td>
</tr>
<tr>
<td>Teaweed/Prickly sida</td>
<td>- 2 4 6</td>
<td></td>
</tr>
<tr>
<td>Texas panicum</td>
<td>6 8 12 - 24</td>
<td></td>
</tr>
<tr>
<td>Thistle, Russian5</td>
<td>6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Velvetleaf</td>
<td>- 6 12</td>
<td></td>
</tr>
<tr>
<td>Virginia pepperweed</td>
<td>- 18 - -</td>
<td></td>
</tr>
<tr>
<td>Waterhemp*</td>
<td>- - 6 - 12</td>
<td></td>
</tr>
<tr>
<td>Wheat*</td>
<td>6 12 18 - -</td>
<td></td>
</tr>
<tr>
<td>Wheat, (overwintered)</td>
<td>- 6 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Wild oats</td>
<td>3 6 18 - -</td>
<td></td>
</tr>
<tr>
<td>Wild proso millet</td>
<td>- 6 12 - 18</td>
<td></td>
</tr>
<tr>
<td>Witchgrass</td>
<td>- 12 - -</td>
<td></td>
</tr>
<tr>
<td>Woolly cupgrass</td>
<td>- 6 12 - -</td>
<td></td>
</tr>
<tr>
<td>Yellow rocket</td>
<td>- 12 20 - -</td>
<td></td>
</tr>
</tbody>
</table>

1 For control of downy brome in no-till systems, apply 16 fluid ounces of this product per acre.

2 Performance of this product is better if application is made before this weed reaches the boot stage of growth.

3 Apply 16 fluid ounces of this product per acre to control wild buckwheat in the cotyledon to 2-leaf stage. Apply 22 fluid ounces per acre to control 2- to 4-leaf wild buckwheat. For better control of wild buckwheat over 2 inches in size, make sequential applications of 22 fluid ounces followed by 22 fluid ounces of this product per acre.

4 Do not apply when kochia is in the button stage.

5 Control of Russian thistle can vary based on environmental conditions and spray coverage. If possible, apply this product in a tank mixture with 2,4-D, as described in the following section, to improve control.

* A glyphosate-resistant biotype has been confirmed. For additional information, refer to the “WEED RESISTANCE MANAGEMENT” section of this label. You may also visit on the Internet, www.weedscience.org or www.weedresistancemanagement.com, or contact your Monsanto Company representative.
14.1 Annual Weeds—Tank Mixtures with 2,4-D, Dicamba or Tordon 22K

Better control of certain tough weeds can be achieved by tank-mixing this product with 0.25 pound of dicamba or 0.5 pound of 2,4-D, or 1 to 2 fluid ounces of Tordon 22K per acre. These other herbicides, combined with the rate of this product specified in the "ANNUAL WEEDS RATE TABLE," will control the following weeds up to the maximum height or length indicated: 6 inches—prickly lettuce, marestail/horseweed, morning glory, kochia (in a tank-mix with dicamba only), wild buckwheat (in a tank-mix with Tordon 22K only); 12 inches—cocklebur, lambsquarters, pigweed, Russian thistle (in a tank-mix with 2,4-D only).

At rates given in the "ANNUAL WEEDS RATE SECTION," this product will control the following weeds up to a maximum height or length of 6 inches: common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf. For better control, tank-mix this product with 0.5 pound of 2,4-D per acre.

Ensure that the product used is labeled for application at the desired site. Follow all precautions and limitations on the tank-mix product label, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines. Use according to the more restrictive label requirements. Some crop injury could occur if dicamba or Tordon 22K is applied within 45 days of planting.

14.2 Annual Weeds—Handheld and Backpack Sprayers

For control of weeds listed in the "ANNUAL WEEDS RATE TABLE," apply a 0.4-percent solution of this product to weeds less than 6 inches in height or runner length prior to seed head formation in grasses or bud formation in broadleaf weeds. For control of annual weeds over 6 inches tall, or unless otherwise directed, use a 0.7-percent solution.

For best results, apply a 1.5-percent solution of this product on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

When using application methods that result in less than complete coverage, apply a 4-percent solution of this product for control of annual and perennial weeds, and a 4- to 7-percent solution for woody brush and trees.

14.3 Annual Weeds—Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1 pound of atrazine per acre.

Application of 16 to 20 fluid ounces of this product, plus 1 to 2 pounds of atrazine, per acre will control the following weeds: barnyardgrass (requires 20 fluid ounces of this product for control), downy brome, green foxtail, lambsquarters, prickly lettuce, tansy mustard, pigweed, field sandbur, stinkgrass, Russian thistle, volunteer wheat, witchgrass and kochia (add 0.12 pound of dicamba for control). Ensure that the atrazine or dicamba product used is labeled for application on the desired site. Follow all precautions and limitations on the tank-mix product label, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines.

15.0 PERENNIAL WEEDS RATE SECTION

Apply to actively growing perennial weeds. If weeds have been mowed or tilled, do not apply this product until plants have resumed active growth and have reached the specified stage.

More than one application of this product might be necessary to control weeds regenerating from underground parts or seed, but must be made prior to crop emergence, except where in-crop application is allowed.

Unless otherwise directed, allow a minimum of 7 days after application before soil tillage.

Best results are obtained when soil moisture is adequate for active weed growth.
Do not apply this product when field bindweed is under drought stress, as good soil moisture is necessary for active growth.

For control, apply 2.5 to 3.3 quarts of this product per acre west of the Mississippi River and 2 to 2.5 quarts per acre east of the Mississippi River when bindweed is at or beyond full bloom. For best results, apply in late summer or fall. Fall application must be made before a killing frost. Also for control, apply 44 fluid ounces of this product, plus 0.5 pound of dicamba, in 10 to 20 gallons of water per acre. Do not apply this mixture using aerial application equipment.

For suppression on irrigated agricultural land, apply 22 to 44 fluid ounces of this product, plus 1 pound of 2,4-D, in 10 to 20 gallons of water per acre using ground application equipment only. Application may be made following harvest or on fallow ground in the fall when bindweed is actively growing and the majority of runners are 12 inches or more in length. Irrigate at least once to promote active bindweed growth.

For suppression, apply 11 fluid ounces of this product, plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre using ground application equipment, or in 3 to 5 gallons of water per acre using aerial application equipment. Apply by air in fallow and reduced tillage systems only. Delay application until maximum emergence has occurred and vines are 6 to 18 inches in length.

In California only, apply 22 fluid ounces to 3.3 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre using ground application equipment only. Application may be made following harvest or on fallow ground in the fall when bindweed is actively growing and the majority of runners are 12 inches or more in length. Irrigate at least once to promote active bindweed growth.

Pesticide use involves risks. It is the responsibility of the user to ensure that the product is used in a manner consistent with alllabel instructions and any other applicable laws and regulations.
**PERENNIAL WEEDS RATE TABLE (Continued)**

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dogbane, hemp</strong></td>
<td>3</td>
<td>3 – 40</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to re-grow to a mature stage prior to application of this product. For best results, apply in late summer or fall. For suppression, apply 11 fluid ounces of this product, plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre using ground application equipment, and in 3 to 5 gallons of water per acre using aerial application equipment. Delay application until maximum emergence of dogbane has occurred.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fescue (except tall)</strong></td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply 64 fluid ounces of this product per acre when most plants have reached boot to early seed head stage of development. For fall application, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre when plants have 6 to 12 inches of new growth. A sequential application of 11 fluid ounces of this product per acre will improve long-term control and will control seedlings germinating after fall application or in the following spring.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fescue, tall</strong></td>
<td>0.7 - 2</td>
<td>3 – 40</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply 64 fluid ounces of this product per acre when most plants have reached boot to early seed head stage of development. For fall application, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre when plants have 6 to 12 inches of new growth. A sequential application of 11 fluid ounces of this product per acre will improve long-term control and will control seedlings germinating after fall application or in the following spring.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Guineagrass</strong></td>
<td>1.5 – 2</td>
<td>3 – 40</td>
<td>1%</td>
</tr>
<tr>
<td>Apply when most plants have reached the 7-leaf stage of growth. Ensure thorough coverage when using a handheld sprayer. In Texas and the ridge of Florida, apply 44 fluid ounces of this product per acre for control. In the flatwoods region of Florida, 64 fluid ounces per acre is required for control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Horsenettle</strong></td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Horseradish</strong></td>
<td>3</td>
<td>3 – 40</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Iceplant</strong></td>
<td>-</td>
<td>-</td>
<td>1.5 – 2%</td>
</tr>
<tr>
<td>Thorough coverage is necessary for best control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Jerusalem artichoke</strong></td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall. For suppression, apply 11 fluid ounces of this product, plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre using ground application equipment, and in 3 to 5 gallons of water per acre using aerial application equipment. Delay application until maximum emergence of dogbane has occurred.
Apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre when wirestem muhly is 8 inches tall or more. Use 44 fluid ounces of this product when applying in 10 to 40 gallons of water per acre or in pasture, sod, or non-crop areas. Do not till between harvest and fall application, or in the fall or spring prior to spring application. Allow a minimum of 3 days after application before tillage.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mullein, common¹</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Napiergrass²</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Nightshade, silverleaf</td>
<td>1.5</td>
<td>3 – 10</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

For best results, apply when at least 60 percent of the plants have berries. Fall application must be made before a killing frost.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutsedge; purple, yellow</td>
<td>0.4 – 2</td>
<td>3 – 40</td>
<td>1 - 1.5%</td>
</tr>
</tbody>
</table>

For control of nutsedge plants and immature nutlets, apply 64 fluid ounces of this product per acre or a 1- to 1.5-percent solution when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets that have not germinated will not be controlled and will require repeated applications for long-term control.

Sequential applications of 22 to 44 fluid ounces of this product in 3 to 10 gallons of water per acre when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall) will also provide control. Repeat this application, as necessary, when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control.

For partial control of existing plants, apply 11 to 44 fluid ounces of this product in 3 to 40 gallons of water per acre when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat this application, as needed, to control subsequent emerging plants or re-growth of existing plants.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchardgrass</td>
<td>0.7 – 1.5</td>
<td>3 – 40</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

Apply 44 fluid ounces of this product in 10 to 40 gallons of water per acre when most plants have reached boot to early seed head stage of development. For partial control in pasture or hay crop renovation, apply 22 to 32 fluid ounces of this product in 3 to 10 gallons of water per acre when plants are actively growing and most have reached 4 to 12 inches in height.

For orchardgrass sods going to no-till corn, apply 22 to 32 fluid ounces of this product in 3 to 10 gallons of water per acre to orchardgrass that is a minimum of 12 inches tall for spring application and 6 inches tall for fall application. Allow a minimum of 3 days after application before planting. A sequential application of atrazine will be necessary for optimum results.
PERENNIAL WEEDS RATE TABLE (Continued)

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pampasgrass</td>
<td>-</td>
<td>-</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Paragrass</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Phragmites</td>
<td>2 – 3.3</td>
<td>10 – 40</td>
<td>1 - 1.5%</td>
</tr>
</tbody>
</table>

Apply when pampasgrass is at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

Poison hemlock
- - 1 - 1.5%
Apply using a handheld sprayer with a spray-to-wet technique. Optimum results are obtained when applied to plants that are at the bud to full-bloom stage of growth. Thorough coverage is necessary for best control.

Pokeweed, common
1 3 – 40 1.5%
Apply to actively growing plants up to 24 inches tall.

Quackgrass
0.7 – 2 3 – 40 1.5%
In annual cropping systems or in pastures and sods followed by deep tillage, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre, or 44 fluid ounces in 10 to 40 gallons of water per acre, when quackgrass is 6 to 8 inches in height. Do not tank-mix with residual herbicides when using the 22-fluid-ounce rate. Do not till between harvest and fall application, or in the fall or spring prior to spring application. Allow a minimum of 3 days after application before tillage. In pastures or sods, use a moldboard plow for best results.

In pastures, sods or non-crop areas where deep tillage does not follow application, apply 44 to 64 fluid ounces of this product in 10 to 40 gallons of water per acre when quackgrass is greater than 8 inches tall.

Redvine
0.5 – 1.5 5 – 10 1.5%
For suppression, make two applications of 16 fluid ounces of this product 7 to 14 days apart, or a single application of 44 fluid ounces, in 5 to 10 gallons of water per acre in late September or early October, to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Apply a minimum of 1 week before a killing frost.

Reed, giant
- - 1.5%
Best results are obtained when application is made in late summer or fall.

Ryegrass, perennial
0.7 – 2 3 – 40 1%
In annual cropping systems, apply 22 to 44 fluid ounces of this product in 3 to 10 gallons of water per acre, or 44 fluid ounces when applying in 10 to 40 gallons of water per acre. In non-crop areas or areas where annual tillage is not practiced (no-till), apply 44 to 64 fluid ounces of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot to head stage of growth or in the fall prior to frost. Do not tank-mix with residual herbicides when applying 22 fluid ounces of this product per acre.

Smartweed, swamp
2 – 3.3 3 – 40 1.5%
Also for control, apply 11 fluid ounces of this product, plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre in late summer or fall.

Sowthistle, perennial
1.5 – 2 3 – 40 1.5%
Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in late summer or fall, allow a minimum of 4 weeks for initiation of active growth and rosette development prior to application of this product. Fall application must be made before a killing frost. Allow a minimum of 3 days after application before tillage.

Spurge, leafy
- 3 – 10 1.5%
For suppression, apply 11 fluid ounces of this product, plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre in late summer or fall. If mowing has occurred, delay application until most plants are 12 inches tall.

Starthistle, yellow
1.5 10 – 40 1.5%
Best results are obtained when application is made during the rosette, bolting or early flower stage.

Sweet potato, wild
- - 1.5%
For partial control, apply to plants that are at or beyond the bloom stage of growth. More than one application might be needed.
**WOODY BRUSH AND TREES RATE SECTION**

Apply this product during full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and flowering.

Unless otherwise directed, make broadcast applications in 3 to 40 gallons of water per acre. Ensure thorough coverage when using handheld sprayers. Symptoms might not appear prior to frost or senescence after a fall application.

Allow a minimum of 7 days after application before tillage, mowing or removal of vegetation in the application area. Repeat applications might be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance could result if fall application is made after a frost.

**WOODY BRUSH AND TREES RATE TABLE**

<table>
<thead>
<tr>
<th>Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alder</td>
<td>2 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Ash</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Aspen, quaking</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Bearmat (Bearclover)</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Beech</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Birch</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Blackberry</td>
<td>2 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Blackgum</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Bracken</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
</tbody>
</table>

1 Apply when most plants have reached the early bud stage of growth.
2 Apply when most plants have reached the early heading stage of growth.
### Woody Brush and Trees Rate Table (Continued)

<table>
<thead>
<tr>
<th>Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Handheld Sprayer Concentration (% Solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broom; French, Scotch</td>
<td>-</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Buckwheat, California¹ ²</td>
<td>-</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Cascara¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Catsclaw¹</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Ceanothus¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Chamise²</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Cherry; bitter, black, pin</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Coyote brush</td>
<td>-</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Dogwood¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Elderberry</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Elm¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>-</td>
<td>1.5%</td>
</tr>
<tr>
<td>Florida holly (Brazilian Peppertree)¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Gorse¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Hasardia¹ ²</td>
<td>-</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Hawthorn</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Hazel</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Hickory¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Honeysuckle</td>
<td>2 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Hornbeam, American¹</td>
<td>1.5 – 3.3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Kudzu</td>
<td>2.5 – 3.3</td>
<td>1.5%</td>
</tr>
<tr>
<td>More than one application might be needed to achieve control. For control of eucalyptus re-sprouts, apply when re-sprouts are 6 to 12 feet tall. Ensure complete coverage. Avoid application to drought-stressed eucalyptus plants.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locust, black¹</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Madrone re-sprouts¹</td>
<td>-</td>
<td>1.5%</td>
</tr>
<tr>
<td>More than one application might be needed to achieve control. Apply to re-sprouts that are 3 to 6 feet tall. Best results are obtained with spring or early summer application.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Apply a 1-percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 44 to 86 fluid ounces of this product per acre.

Maple, sugar

Apply when at least 50 percent of the new leaves are fully developed.

Monkey flower¹²

Oak, black, white¹

Oak, post

Oak, northern

Apply when at least 50 percent of the new pin leaves are fully developed.

Oak, southern red

Persimmon¹

Pine

Poison ivy/Poison oak

More than one application might be needed to achieve control. Fall application must be made before leaves lose green color.

Poplar, yellow¹

Redbud, eastern

Rose, multiflora

Make application prior to leaf deterioration by leaf-eating insects.

Russian olive¹

Sage, black²

Sage, white¹

Sagebrush, California²

Salmonberry

Saltcedar

Sassafras¹

Sourwood¹

Sumac; poison, smooth, winged¹

Sweetgum

Swordfern¹

Tallowtree, Chinese²

More than one application might be needed to achieve control.

Apply when at least 50 percent of the new leaves are fully developed.

Apply when at least 50 percent of the new leaves are fully developed.
application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company’s stewardship requirements and with express written permission from this Company.

For in-crop (over-the-top) uses on Roundup Ready crops, 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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

Amplify, Bullet, CROPSHIELD, Degree, Degree Xtra, Harness, INTRRO, Lariat, Micro-Tech, Monsanto and Vine symbol, Roundup Original, Roundup Ready, Roundup Ready 2 Yield, Roundup UltraMAX, Transorb, and YUKON are trademarks of Monsanto Technology LLC.

All other trademarks are the property of their respective owners.

This product is protected by U.S. Patent No’s. 5,668,085 and 6,365,551. Other patents pending. No license granted under any non-U.S. patent(s).
EPA Reg. No 524-537

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

© 2013

Packed for:
MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MISSOURI, 63167 USA
062812