ATTENTION:
This specimen label is provided for general information only.

- This pesticide product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of pesticides.
- Before using any pesticide, be sure the intended use is approved in your state or locality.
- Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the product label. You must have the EPA approved labeling with you at the time of use and must read and follow all label directions.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the pesticide you are using.

Complete Directions for Use
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

THIS PRODUCT NOT REGISTERED IN ALL STATES.

Read the entire label before using this product. Use only according to label directions.

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS DESIRABLE PLANTS AND TREES, EXCEPT AS DIRECTED FOR USE ON ROUNDUP READY CROPS, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

THIS IS AN END-USE PRODUCT. MONSANTO COMPANY DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

Read the “LIMIT OF WARRANTY AND LIABILITY” statement at the end of this labeling before buying or using. If terms are not acceptable, return at once unopened.

Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using.

1.0 INGREDIENTS

ACTIVE INGREDIENT:
* Glyphosate, N-(phosphonomethyl)glycine, in the form of its potassium salt ................................................................. 48.8%
OTHER INGREDIENTS: .................................................................................................................................................. 51.2%

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).

For a list of patents, if any, covering this product or its use, please go to www.monsantotechnology.com.

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE 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.

3.2 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.

3.3 Physical or Chemical Hazards

Spray solutions of this product may be mixed, stored and applied using 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 on separately published supplemental labeling. Supplemental labeling for this product can be obtained from your Authorized Monsanto Retailer or Monsanto Company Representative.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
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. See individual container label for additional storage conditions, if any.

PESTICIDE DISPOSAL: To avoid wastes, use all material in the 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 base label attached to the container for container handling and disposal instructions and refilling limitations.

5.0 PRODUCT INFORMATION

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad-spectrum control of many annual and perennial weeds, woody brush, fleshy vines and fleshy. It is formulated as a water-soluble liquid containing surfactant and may be applied using standard and specialized pesticide application equipment after dilution and thorough mixing with water or other carrier according to label directions.

No Soil Activity: This product binds tightly to soil particles and does not provide residual weed control. Weeds must be emerged at the time of application to be controlled by foliar application of this product. Weed seeds in the soil will not be affected by this product and will continue to germinate. Untreated plant rhizomes and rootstocks beneath the soil surface will also not be affected by this product.

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

Stage of Weeds: Annual weeds are easiest to control when they are small. Enhanced control of most perennial weeds is obtained when this product is applied at later growth stages approaching maturity. Refer to the "ANNUAL WEEDS RATE SECTION" and "WOODY BRUSH, TREES AND VINES RATE SECTION" for more information on the control of specific weeds.

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 prior to application. Always use a 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 also result when this product is applied to weeds that show signs of disease or insect damage, are covered with dust, or are suffering under poor growing conditions.

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

Rainfastness: Rainfall within 4 hours of application could wash this product off of the foliage and a second application might then be needed for acceptable weed control. Refer to specific use sections of this label for additional information on the minimum intervals required before re-application of this product.

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 and degradation 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.

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 allowable 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.

6.0 WEED RESISTANCE MANAGEMENT

Glyphosate, the active ingredient in this product, is a Group 9 herbicide based on the mechanism of action classification system of the Weed Science Society of America. Any weed population can contain plants that are naturally resistant to Group 9 herbicides. Weeds resistant to Group 9 herbicides can be effectively managed by using another herbicide from a different Group (either alone or in a mixture according to label directions), by using other cultural or mechanical methods of weed control, or a combination of the two. Consult your local company representative, state cooperative extension agent, professional consultant or other qualified authority to determine appropriate actions for controlling specific resistant weeds.

6.1 Weed Management Practices

Resistant populations arise when rare individual plants are uncontrolled by a normal dose of a given herbicide under normal environmental conditions. In the absence of other control measures these individuals survive, produce seed, and eventually become the dominant biotype in the field through continuous selection. The best means of reducing the selection is to use diverse weed control practices such as multiple herbicides with different mechanisms of action, and often in combination with various mechanical and cultural practices. To minimize the occurrence of herbicide-resistant biotypes, including those resistant to glyphosate, implement the following weed management practice options that are practical to your situation. These management practices are aimed at reducing the spread of confirmed resistant biotypes (managing existing resistant biotypes) and to reduce the potential for selecting for resistance in new species (proactive resistance management).

• Use a diversified approach toward weed management focused on preventing weed seed production and reducing the number of weed seeds in the soil.
• Plant crops into fields that are as weed-free as possible and then keep them as weed-free as possible.
• Scout fields routinely, before and after herbicide application.
• Use multiple herbicide mechanisms of action that are effective against the most troublesome weeds in your field and against those with known resistance.
• Apply herbicides at application rates listed on the label when weeds are within the size range indicated on the label.
• Emphasize cultural practices that suppress weeds by using crop competitiveness.
• Use mechanical and biological weed management practices where appropriate.
• Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
• Manage weed seed at harvest and after harvest to prevent a buildup of the weed seedbank.

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 the internet at www.weedresistancemanagement.com or www.weedsociety.org.

Glyphosate-resistant weeds can be controlled or managed by applying this product in combination with residual preemergence herbicides and/or other postemergence herbicides labeled for control of the targeted weed in the crop being grown. For more information, see the "ANNUAL WEEDS RATE SECTION" and "PERENNIAL WEEDS RATE SECTION" of this label.

Since the occurrence of resistant weeds is difficult to detect prior to use, Monsanto Company accepts no liability for any losses that result from the failure of this product to control resistant weeds.

7.0 MIXING

Spray solutions of this product may be mixed, stored and applied using 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 adequate. Clean spray parts promptly after using this product by thoroughly flushing with water.

7.1 Mixing with Water

PERFORMANCE OF THIS PRODUCT 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, add an appropriate anti-foam or defoaming agent to the spray solution.
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 in the soil, a broader weed control spectrum, or an alternate mechanism of action.

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. To the extent consistent with applicable law, 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, pendimethalin, or any other product or material, 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 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 any application timing restrictions, soil restrictions, minimum re-cropping intervals and/or crop rotation restrictions. Use according to the most restrictive precautionary statements for each product in the tank mixture.

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

7.3 Tank-Mixing Procedure

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

Mix only the quantity of spray solution that will be applied that day. Application of tank-mix solutions that are allowed to stand overnight could result in reduced weed control.

Prepare tank mixtures of this product as follows:

1. Place a 20- to 35-mesh screen or wetting basket over the filling port of the tank.
2. Through the screen, fill the tank one-half full with water and start gentle agitation.
3. If ammonium sulfate is to be used, add it slowly through the screen into the tank and continue adding water into the tank through the screen. If dry ammonium sulfate is being used, ensure that it is completely dissolved in the tank before adding other products.
4. If a wettable powder is used, prepare a slurry of it with water and add it SLOWLY through the screen into the tank while continuing gentle agitation.
5. If a flowable formulation is used, premix one part flowable with one part water and add the diluted mixture SLOWLY through the screen into the tank while continuing gentle agitation.
6. If an emulsifiable concentrate is used, premix one part emulsifiable concentrate with two parts water and add the diluted mixture SLOWLY through the screen into the tank while continuing gentle agitation.
7. Continue filling the tank with water through the screen and add the required amount of this product near the end of the filling process.
8. If a nonionic surfactant is used, add it to the tank before completing the filling process.
9. Add individual tank-mix components to the tank as follows: wettable powders, flowables, emulsifiable concentrates, drift reduction additives, water soluble liquids (this product), surfactant.

Maintain gentle agitation at all times until the contents of the tank are sprayed out. If the spray mixture is not allowed to settle, agitate thoroughly to resuspend the mixture before resuming application.

Keep by-pass and return lines on or near the bottom of the tank to minimize foaming.

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

7.4 Mixing Spray Solution Concentrations

All reference throughout this label to concentration of this product in a spray solution is on a percentage-of-volume basis.

Prepare the desired volume of spray solution at a given concentration by mixing the amount of this product indicated in the following table with water.

<table>
<thead>
<tr>
<th>Desired Volume of Spray Solution</th>
<th>Amount of Roundup PowerMAX II Herbicide to Achieve Indicated Concentration in Spray Solution (percent by volume)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4%</td>
<td>0.7%</td>
</tr>
<tr>
<td>0.1%</td>
<td>1%</td>
</tr>
<tr>
<td>1.5%</td>
<td>4%</td>
</tr>
<tr>
<td>4%</td>
<td>7%</td>
</tr>
<tr>
<td>1 gallon 0.5 fl oz</td>
<td>1.8 fl oz</td>
</tr>
<tr>
<td>1 gallon 1 fl oz</td>
<td>1.3 fl oz</td>
</tr>
<tr>
<td>1 gallon 2 fl oz</td>
<td>2.8 fl oz</td>
</tr>
<tr>
<td>25 gallons 13 oz</td>
<td>22.8 oz</td>
</tr>
<tr>
<td>25 gallons 16 oz</td>
<td>24 oz</td>
</tr>
<tr>
<td>25 gallons 16.5 oz</td>
<td>28.8 oz</td>
</tr>
<tr>
<td>100 gallons 1.6 quarts</td>
<td>2.8 quarts</td>
</tr>
<tr>
<td>100 gallons 1.65 quarts</td>
<td>2.8 quarts</td>
</tr>
<tr>
<td>100 gallons 1.7 quarts</td>
<td>1 gal</td>
</tr>
<tr>
<td>100 gallons 1.75 quarts</td>
<td>1.5 quarts</td>
</tr>
<tr>
<td>100 gallons 1.77 quarts</td>
<td>4 quarts</td>
</tr>
<tr>
<td>100 gallons 1.78 quarts</td>
<td>7 quarts</td>
</tr>
</tbody>
</table>

2 tablespoons = 1 fluid ounce (fl oz)

For filling backpack and pump-up 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 Surfactants

Although not always required, surfactant may be added to spray solutions of this product. However, additional surfactant can increase the performance of this product at water carrier volumes above 30 gallons per acre or at application rates below 16 fluid ounces of product per acre.

Nonionic surfactants that are labeled for use with herbicides may be used. Do not reduce rates of this product when adding surfactant. Use a surfactant concentration of 0.25 to 0.5 percent (1 to 2 quarts per 100 gallons of spray solution) when adding surfactant that contains at least 70 percent active ingredient, or a 1-percent surfactant concentration (4 quarts per 100 gallons of spray solution) when adding surfactant that contains less than 70 percent active ingredient. Read and carefully observe all precautionary statements and other information on the surfactant label.

DO NOT add buffering agents or pH adjusting agents to the spray solution when Roundup PowerMAX II Herbicide is the only pesticide product being applied.

DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO COTTON OR ANY POSTEMERGENCE (IN-CROP) APPLICATION TO ROUNDUP READY COTTON AND ROUNDUP READY FLEX COTTON.

7.6 Ammonium Sulfate

Unless otherwise directed, the addition of 1 to 2 percent dry ammonium sulfate by weight (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 spray tank before adding herbicides. Thoroughly rinse the spray system with clean water promptly after use to reduce corrosion.

When using ammonium sulfate, apply this product at rates directed on this label; lower application rates will result in reduced performance.

7.7 Colorants and Dyes

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

7.8 Drift Reduction Additives

Drift reduction additives may be used with all equipment types, except wiper applicators, spray bars and controlled droplet applicators (CDAs). When a drift reduction additive is used, read and follow 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

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 couplers and other ground broadcast application equipment

Handheld 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 applicator, squeeze bar

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 THIS PRODUCT USING PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF ACCURATELY DELIVERING DESIRED VOLUMES.

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

8.1 Spray Drift Management

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

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

AVOID DRIFT. USE EXTREME CARE TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHEN APPLYING THIS PRODUCT.

Avoid spraying drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and grower are responsible for considering all these factors when making decisions regarding the application of this product.

The likelihood of injury occurring as the result of spray drift while applying this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or generation of fine particles (mist) that are likely to drift.

TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BARRIERS MUST BE MAINTAINED.

AVOID APPLYING THIS PRODUCT AT EXCESSIVE SPEED OR SPRAYER PRESSURE.

8.2 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 or on separate supplemental labeling published for this product.
DO NOT APPLY THIS PRODUCT USING AERIAL APPLICATION EQUIPMENT EXCEPT UNDER CONDITIONS SPECIFIED ON THIS LABEL OR ON SEPARATELY PUBLISHED SUPPLEMENTAL LABELING FOR THIS PRODUCT. FOR SPECIFIC USE INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS RELATED TO THE AERIAL APPLICATION OF THIS PRODUCT IN ARKANSAS AND CALIFORNIA, OR SPECIFIC COUNTIES THEREIN, REFER TO THE LIMITATIONS ON AERIAL APPLICATION IN THAT STATE OR COUNTY PRESENTED IN THIS SECTION.

State Specific Limitations on Aerial Application

LIMITATIONS ON AERIAL APPLICATION IN CALIFORNIA ONLY

DO NOT apply this product using aerial application equipment in residential areas.

AVOID DRIFT – DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT OF THIS PRODUCT ONTO ANY VEGETATION TO WHICH APPLICATION WAS NOT INTENDED CAN CAUSE DAMAGE. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, USE PROPER AERIAL APPLICATION EQUIPMENT FITTED WITH APPROPRIATE NOZZLES AND MAINTAIN ADEQUATE BUFFERS.

Follow the directions below when making an aerial application near non-target crops, desirable annual vegetation, or desirable perennial vegetation after bud break and before total leaf drop.

1. Do not apply this product within 100 feet of all desirable vegetation or non-target crops.
2. If winds are blowing up to 5 miles per hour TOWARD desirable vegetation or non-target crops, do not apply this product within 500 feet of the desirable vegetation or crops.
3. If winds are blowing between 5 and 10 miles per hour TOWARD desirable vegetation or non-target crops, a buffer zone greater than 500 feet might be needed to protect the desirable vegetation or crops.
4. Do not apply this product using aerial application equipment when winds are blowing in excess of 10 miles per hour.

5. Do not apply this product using aerial application equipment when inversion conditions exist.

When tank-mixing this product with 2,4-D, only 2,4-D amine formulations may be applied in California using aerial application equipment. Tank mixes of this product with 2,4-D amine formulations may be applied by air in California on fallow fields and in reduced tillage systems, and for alfalfa and pasture renovation applications only.

This product, when tank-mixed with dicamba, may not be applied by air in California.

ADDITIONAL LIMITATIONS ON AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY

Always read and follow the label directions and precautionary statements for all products used in the aerial application.

The following information applies only from February 15 through March 31 within the following boundaries of Fresno County, California:

North: Fresno County line
South: Fresno County line
East: State Highway 99
West: Fresno County line

Observe the following directions to minimize off-site movement during aerial application of this product. Minimization of off-site movement is the responsibility of the grower, Pest Control Advisor and aerial applicator.

Written Directions

Written directions MUST be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application. These written directions MUST state the proximity of surrounding crops and that conditions of each manufacturer’s product label and this label have been satisfied.

Aerial Applicator Training and Equipment

Aerial application of this product is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides. All aircraft must be inspected, critiqued in flight and certified at a Fresno County Agricultural Commissioner approved fly-in. Test and calibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvants are being applied during commercial use. Applicator must document such calibrations and testing. 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.

Application 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.

For additional information on the proper aerial application of this product in Fresno County, call (800)332-3111.

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 downward more than 45 degrees on fixed wing aircraft or forward of the prevailing airflow on rotary wing 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.

Follow the directions below when an aerial application is made near non-target crops or other desirable vegetation:

1. Do not apply this product within 100 feet of non-target crops or any desirable vegetation.
2. If winds are blowing up to 5 miles per hour TOWARD non-target crops or desirable vegetation, do not apply this product within 500 feet upwind of the crop or desirable vegetation.
3. If winds are blowing between 5 and 10 miles per hour TOWARD non-target crops or desirable vegetation, a buffer zone greater than 500 feet might be needed to protect the crop or desirable vegetation.

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to minimize off-target drift movement during aerial application.

1. The distance of the outermost nozzles on the boom must not exceed ⅓ 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.

When 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, such as in windy, high temperature with low humidity, and/or inversion conditions as described below.

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: Operate at a sprayer pressure towards the lower end of the range 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 the pressure.
• Number of nozzles: Use the minimum number of nozzles that provide uniform coverage.
• 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 ¾ 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 plant. Except when airflow deflection from the horizontal will reduce droplet size and increase drift potential.
• 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 wind speed. Applying larger droplets reduces drift potential, but will not prevent drift if the application is made improperly or under unfavorable environmental conditions, such as in windy, high temperature with low humidity, and/or inversion conditions as described below.

Temperature and Humidity

When making an application in low relative humidity, set application equipment to produce larger droplets and equipment type, determine drift potential at any given wind speed. Avoid application when winds 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 Inversion

Do not apply this product during a temperature inversion as 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. 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 a sensitive area).

Avoid direct application to any body of water.

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.
8.3 Ground Application Equipment

Apply this product at the appropriate rate as specified on this label in 3 to 40 gallons of water per acre when making a broadcast application using ground application equipment, unless otherwise directed on this label or on separate supplemental labeling or Fact Sheets published for this product. As the weed density increases, increase the spray volume towards the upper end of this range to ensure complete coverage. Use nozzles that will avoid generating a fine mist. For enhanced results with ground application equipment, use flat-fan nozzles. Check spray pattern for uniform distribution of spray droplets.

8.4 Handheld Sprayers

When using a handheld sprayer, apply spray solutions of this product uniformly and completely to the foliage of target weeds using a coarse droplet spectrum and a spray-to-wet technique; do not spray to the point of runoff. For the appropriate concentration of this product in the spray solution and timing of application to control specific weeds, woody brush, trees and vines, refer to the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” of this label.

Spot treatment application of this product for weed control in a cropping system using a handheld sprayer may be made only when specifically directed on this label or on separate supplemental labeling for this product. 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.

8.5 Selective Application Equipment

Selective application equipment allows this product to be applied to weeds growing near the crop or other desirable vegetation without killing the desirable vegetation. Selective application equipment must be capable of preventing all contact of the herbicide solution with the crop or other desirable vegetation and operated without spray mist escape, leakage, or dripping of the herbicide solution.

AHOOD SPRAYING TECHNIQUES

A hooded sprayer is a type of hooded sprayer where the spray pattern is fully enclosed, including the top, sides, front and back, thereby shielding the crop or other desirable vegetation from the spray solution. This product may be diluted in water and applied using a shielded or hooded sprayer to weeds listed on this label growing on any non-crop site described on this label and in between rows of plants (row middles) in any cropping system listed on this label.

Properly adjust the hood to protect desirable vegetation. Ensure that the hood is capable of completely enclosing the spray pattern. If necessary when applying around crops grown on raised beds, extend the front and rear flaps of the hooded sprayer downward to reach the ground in deep furrows.

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 or other desirable vegetation. 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 help reduce the potential for crop injury when using a hooded sprayer:

- Operate the sprayer with the hood 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 minimize bouncing of the hooded sprayer.
- Apply when wind speed is 10 miles per hour or less.
- Use low-drift nozzles that provide uniform coverage within the application area.

Injury to a crop or other desirable vegetation can occur when application is made to foliage of weeds that come into contact directly with the crop or desirable vegetation. Do not apply this product when leaves of desirable vegetation 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 or solutions of this product directly onto the target weed or cut stump. Any handheld device that is capable of physically wiping this product or solutions of this product directly onto the target weed or cut stump, such as a paint brush, may be used.

A mechanical wiper applicator, such as a rope wick or sponge bar that can be driven through a field over the top of a crop or other desirable vegetation to control weeds that are taller than the desirable vegetation, must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation.

Wiper applicators may be used over the top of food or feed crops ONLY if specifically permitted for use over that crop by this label or by separately published supplemental labeling for this product. When using a mechanical wiper applicator, adjust the height of the applicator to ensure adequate contact with weeds and so that the wiper contact point is a minimum of 2 inches above the desirable vegetation. Enhanced 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 and more contact time of the wiper with the weed. Enhanced results with a wiper applicator can be obtained when two applications are made traveling in opposite directions in the field. Keep wipers surfaces clean.

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. 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.

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.

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.

8.6 Injection Systems

This product may be used in aerial and ground injection spray systems as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this concentrated product with the undiluted concentrate of other products for use in injection systems, unless otherwise directed.

8.7 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.

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: This product may be applied 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, TREES AND VINES RATE SECTION” of this label. Application rates specified on this label for hard-to-control 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, TREES AND VINES RATE SECTION” of this label.

Additional information on hard-to-control 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. Refer to specific use sections of this label for additional information on minimum intervals required before re-application of this product.

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. Crop injury is possible with these methods of application. Refer to the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for information regarding the potential for crop injury using selective application equipment.

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 buffers 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 mechanism 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. Mixing tank-mix products have the potential to cause crop injury. Read the label of 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 with this product. To the extent consistent with applicable law, 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.
**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 Selective Equipment; Spot Treatment; Preharvest

**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 2 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.

**Spot Treatment (Except Rice)**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in cereal crops, except rice. Apply before heading or after the hard-dough stage when grain moisture is 30 percent or less. Stubble may be grazed immediately after harvest.

**Post-Harvest**

**USE INSTRUCTIONS:** This product may be applied for weed control after harvest of cereal crops. Higher rates might be needed 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 of this product 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

**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.

**9.3 Cotton**

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

---

**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 death could result. Transplant seedlings coming into contact with weeds that are still wet with a spray solution of this product 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 crop 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:** Allow a minimum of 35 days between application and harvest. Do not use roller applicator.
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 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 per acre.

Carporn 4L, Command 3ME, Crotan 4L, Cotton Pro, Dawn, Direx 4L, Dual MAGNUM, Dual II MAGNUM, Karmex DF, Proel 3.3 EC, Proel H2O: Reflex; Rowel, Sharpen Powered by Kioro; Stalwart, Staple LP; Valor SX, Warrant; Warrant Ultra, acetochlor; clomazone; diuron; flumioxazin; fluometuron; fomesafen; metolachlor; s-metolachlor; norflurazon; pendimethalin; prometryn; pyrithiobac-sodium, saflufenacil

Selective Use Equipment

USE INSTRUCTIONS: This product may be applied 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 a 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 E, 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 SURFACANT OR ADDITIVES CONTAINING SURFACANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO COTTON.

4.4 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 will control weeds listed in the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” of this label prior to planting.

TANK MIXTURES: Apply 8 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Goal 2XL 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 per acre in a tank-mix with an appropriate rate of Goal 2XL 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 prior to the planting of crops listed on this label (preplant), 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; Bicep II MAGNUM FC; Bicep Lite II MAGNUM; Degree Xtra; Dual MAGNUM, Dual II MAGNUM, Sharpen Powered by Kioro; Warrant, acetochlor; atrazine; metolachlor; s-metolachlor; saflufenacil

For hard-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 or more 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 where weeds are less than 6 inches tall, and 22 to 32 fluid ounces per acre where weeds are over 6 inches tall. When using a nitrogen solution as the carrier, the application rate might need to be increased to achieve acceptable 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 applying with 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. 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: Up to 44 fluid ounces of this product per acre may be applied 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 in grain sorghum (milo) infected with charcoal rot as lodging can occur.

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.

9.6 Herbs and Spices

LABELED CROPS: Alfalfa; Angelica; Bar star anise; Annatto (seed); Balm; Basil; Borage; Burnet; Camomile; Caper buds; Caraway; Black cardamom; Cassia, Carya, Cassia buds; Celadon; Celery seed; Chervil (dried); Chive; Chinese chive; Cinnamon; Clay, Clove buds; Coriander leaf (cilantro or Chinese parsley) Coriander leaf; Cymbopogon; Calotropis; Calotropis (leaf); Calotropis (seed); Cumin; Curry (leaf); Cilantro (seed); Cilantro (dried); Coquelicot; 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, Mogua Flower; Mustard (seed); Narcissium; Nutmeg; Parsley (dried); Pennycress; Pfeffer (black and white); Pepper leaves; Peppermin; Pippali; Poppy (seed); Rosemary; Rose; Saffron; Sage; Savory (summer and winter); Spearmint; Stevia leaves; Sweet bay; Tansy; Tarragon; Thyme; Vanilla; Wintergreen; Woodward, Wormwood

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

Preharvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of grain sorghum. Higher application rates might be needed 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 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.

9.7 Oilseed Crops

LABELED CROPS: Borage; Buffalo gourd; Calendula; Camola; Castor oil plant; Chinese tallowtree; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax; Gold of pleasure; Han’s ear mustard; Jobpa; Luscaprella; Meadowfoam; Milkweed; Mustard, Niger seed; Oil radish; Poppy; Rape; Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Veronica
9.8 Soybean

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

**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 or dicamba may be used. Ensure that the product used is labeled for post-emergence application in the crop harvested. Read and follow label directions for all products in the tank mixture.

**RESTRICTIONS:** Do not exceed a total application rate of 5.3 quarts of this product per acre per year. Preharvest application is not permitted on buffalo gourd.

Preplant, At-Planting, Preemergence

**USE INSTRUCTIONS:** This product may be applied in soybean using a shielded sprayer, 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.

Preharvest

**USE INSTRUCTIONS:** This product may be applied in soybean prior to harvest after pods have set and lost all green color. Apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Take care to avoid excessive seed shatter loss due to ground application equipment.

**RESTRICTIONS:** Do not apply more than 3.3 quarts of this product per acre for preharvest application using ground application equipment or more than 44 fluid ounces per acre using aerial application equipment. Allow a minimum of 7 days between application and harvest of soybean. If the preharvest application rate is greater than 22 fluid ounces per acre, do not graze or harvest hay or fodder within the application area for livestock feed within 25 days of application. If the application rate is 22 fluid ounces per acre or less, the grazing restriction is reduced to 14 days after application.

Preharvest

**USE INSTRUCTIONS:** This product may be applied to soybean prior to harvest after pods have set and lost all green color. Apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Take care to avoid excessive seed shatter loss due to ground application equipment.

**RESTRICTIONS:** Do not apply more than 3.3 quarts of this product per acre for preharvest application using ground application equipment or more than 44 fluid ounces per acre using aerial application equipment. Allow a minimum of 7 days between application and harvest of soybean. If the preharvest application rate is greater than 22 fluid ounces per acre, do not graze or harvest hay or fodder within the application area for livestock feed within 25 days of application. If the application rate is 22 fluid ounces per acre or less, the grazing restriction is reduced to 14 days after application.

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 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 sugarcane using a shielded sprayer, 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. Preharvest

**USE INSTRUCTIONS:** This product may be applied as a spot treatment prior to harvest after pods have set and lost all green color. Apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Take care to avoid excessive seed shatter loss due to ground application equipment.

**RESTRICTIONS:** Do not apply more than 3.3 quarts of this product per acre for preharvest application using ground application equipment or more than 44 fluid ounces per acre using aerial application equipment. Allow a minimum of 7 days between application and harvest of sugarcane. If the preharvest application rate is greater than 22 fluid ounces per acre, do not graze or harvest hay or fodder within the application area for livestock feed within 25 days of application. If the application rate is 22 fluid ounces per acre or less, the grazing restriction is reduced to 14 days after application.

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 applying to sugarcane under adverse ripening conditions or to 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. 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 sugarcane grown for seed.

RESTRICTIONS: Do not feed or graze sugarcane folage 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), sorgonhum (milo), soybean, squash (all types) or wheat.

Do not apply for enhanced rooting 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 have 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 (carrot, rutabaga, sweet potato 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 with a small 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 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 emerges from the soil 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 vapor applications in row middles prior to vine development, otherwise severe crop injury or destruction could result. RESTRICTIONS: Unless otherwise directed, application using selective equipment, including vapor 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.
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 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, cranberry, or transplant these crops within 30 days of application.

Strips (within rows)

TANK MIXTURES: This product may be applied within rows of tree, vine and shrub crops in tank mixtures with the following products.

Alien; Chateau Herbicide SW; Devrinol 2-XT; Devrinol 50-DF; Devrinol 50-DF Ornamental; Devrinol DF-XT; Devrinol DF-XT Ornamental; Direx 4L; Dire-Clean; Fusilade II Turf & Ornamental; Fusilade DA; Goal 2XL; GoalTender; Karmex DF; Matrix FW; Matrix SG; Orchard Master Broadleaf; Orchard Master CA; Finder GT; Poast; Poast Plus; Prowl 3.3 EC; Prowl H20; Prowl 4EC; Princep Caliber 90; Princep Liquid; Rely 280; Select; Select 2 EC; Select Max Herbicide with Inside Technology; Simazine 4L; Simazine 4L Flammable; Simazine 90DF; Simazine 90 WDG; Sim-Trol 4L; Sim-Trol DF; Solicon DF; Surfan AS Agricultural; Surfan AS Specialty; Surfan Flex; Surfan Flex T&O; Surfan XL 2G; Trevex Powered by Kerox; Venor; Visor Broadcrop, 2-4-D; bromacil; clemidion; diuron; fluazifop-P-butyl; flumioxazin; glufosinate-ammonium; indaziflam; napropamide; norflurazon; oryzalin; oxyfluoren, pendimethalin, penoxsulam; pyraflufen ethyl; rimsulfuron; safener; sethoxydim; simazine; thiazyzpyr

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.

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 to the spray mix.

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

For suppression of vegetative growth and seedhead 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 seedhead 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 burndown 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 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 done during site preparation or site renovation to control re-growth and re-sprouting of stumps of many tree species, some of which are listed below.

Citrus Trees: Calamondin, Chirona; Citron, Citrus hybrids; Grapefruit; Kumquat; Lemon; Mandarin (tangerine); Orange (all); Pummelo, Tangelo (lugi); Tanger

Nut Trees: Almond; Beechnut; Brazil nut; Butternut; Cashew; Chestnut; Chinquapin; Flibet (hazelnut); Hickory nut; Macadamia; Pecan; Pintachio; Walnut (black, English)

USE INSTRUCTIONS: Cut the 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 enhanced results, cut the tree during period of active growth and full leaf expansion and apply this product.

PRECAUTIONS: DO NOT MAKE A CUT STUMP APPLICATION WHEN THE ROOTS OF ADJACENT DESIRABLE TREES MIGHT BE GRAFTED TO THE ROOTS OF THE CUT STUMP; AS INJURY COULD OCCUR IN THE ADJACENT TREES. 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.

10.1 Berry and Small Fruit Crops

LABELED CROPS: All cultivars, varieties and/or hybrids of Amur River grape; Aronia berry; Bilberry; Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boyseberry, brombora, California blackberry, Cherokee blackberry, cheyenne blackberry, common blackberry, cowberry, dewberry, dogwood, evergreen blackberry, Himalayaberry, hulberry, lavacaberry, loganberry, lowberry, Lucaberries, mammoth blackberry, marionberry, mame, moras de ronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenable, ravenberry, rousberry, Shawnee blackberry, Southern dewberry, tabbery, youngberry, zaramoila). Blueberry (highbush, lowbush), Buffaloberry, Che, Chileno guava, Chokecherry, Cloudberry, Cranberry (including higbush).

Cranberries, Blackberry, Boysenberry, red, native); Elderberry; European barberry, Gooseberry, Grape; Honeyberry (edible); Huckleberry; Jostaberry, Jucarbena berry (Saxxetion berry); Kwifruit (fuzzy, hardy); Lingonberry, Maypop, Mountainlemon berries, Muntries, Partidgeberry, Phalsa; Pincherberry; Raspberry (black, red, wild); Riberry, Salal, Schisandra berry, Sea buckthorn, Serviceberry, Strawberry

TYPES OF APPLICATION: Those listed in Section 10.0

PRECAUTIONS: To avoid damage, spray solutions of this product must not be allowed to contact desirable vegetation, including green shoots, canes or foliage. In the northeast and Great Lakes regions, this product may be applied in grape vineyards prior to the end of the bloom stage in order to avoid crop injury, or apply using a shielded sprayer or wiper applicator. USE THIS PRODUCT WITH EXTREME CARE AROUND RASPBERRY, AS SERIOUS CROP DAMAGE CAN OCCUR IF ANY PART OF THE VINE COMES INTO CONTACT WITH THIS PRODUCT.
To the extent consistent with applicable law, grower assumes all responsibility for crop losses resulting from misapplication of this product.

RESTRICTIONS: Allow a minimum of 3 days between application of this product and transplanting. Allow a minimum of 30 days between application and harvest of cranberries or the planting of any crop not listed on this label. Allow a minimum of 14 days between application and harvest for all other berry and small fruit crops listed here. Do not apply this product using selective equipment in kiwifruit.

Spot Treatment

USE INSTRUCTIONS: Spot treatment application using a handheld sprayer or other appropriate application equipment listed in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label may be used to control weeds in berry and small fruit crops listed in this section.

For control of weeds growing in dry ditches (interior and perimeter) of cranberry production areas, drop water level to remove standing water in ditches and apply a 1 to 2-percent solution of this product with a handheld sprayer to adequately 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 spot treatment application and harvest of cranberries. 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 Application in Cranberry Production

USE INSTRUCTIONS: This product may be applied for weed control after the harvest of berries and small fruits listed in this section. In cranberry bogs, apply this product after cranberry vines are dormant (after they have turned red) using a handheld sprayer, wiper applicator or any 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 post-harvest application and the next harvest of cranberries. Do not use aerial application equipment. Do not apply directly to water.

10.2 Citrus Fruit Crops

LABELED CROPS: All cultivars, varieties and/or hybrids of Calamondin, Citronja, Citron; Citrus Hybrids; Grapefruit (including Japanese summer); Kumquat; Lemon, Lime (including Australian desert lime, Australian finger lime, Australian round lime, Brown river finger lime, Mount white; New Guinea wild, Russell river, sweet, and Tahiti); Mandarin (including Mediterranean, Satsuma); Orange (all); Pummelo; Tangelo; Tangerine (Mandarin); Tanger; Uniq fruit (upi)

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-mix with Kover or Karems could improve weed control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

10.3 Pome Fruit Crops

LABELED CROPS: All cultivars, varieties and/or hybrids of Apple, Azarole, Crabapple, Loquat; Mayhaw; Medlar; Pear (including Asian pear); Quince (including Chinese and Japanese quince); Rootstock

TYPES OF APPLICATION: Those listed in Section 10.0

RESTRICTIONS: Allow a minimum of 1 day between application and harvest of pome fruit. For citrus 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 OVSPORAY OR DRIFT OF THIS PRODUCT.

RESTRICTIONS: Allow a minimum of 17 days between application and harvest of stone fruit. 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; Chiquapuin; 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 (acerola); Bibita; Blimbe; Breadfruit; Cacao (cocoa) bean; Canistel; Carambola (starfruit); Cherimoya; Coffee; Custard apple; Dates; Durian; Feijoa, Figs, Governor’s plum; Guava; Ilama; Imbe; Imbu; Jaboticaba; Jackfruit; Langan; Lychee; Mayem apple; Mango; Mangosteen; Maralamalaxo (genip); Mountain papaya; Noni (Indian mulberry); Papaya; Pawpaw; Plantain; Persimmon; Pomegranate; Pulasan; Rambutan; Rose apple; Sapodilla; Sapote (black, manem, white); Spanish lime; Soursop; Star apple; Sugar apple; Surinam cherry; Tamarind; Tea; Ti; 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 in banana, coffee, guava, papaya, and plantain crops. Allow a minimum of 14 days between application and harvest of all other tropical and subtropical tree fruit listed here. In coffee and banana, delay application a minimum of 3 months from transplanting to allow the new coffee or banana plant to become established.

Bananacide (Banana Only)

USE INSTRUCTIONS: This product may be used to destroy banana plants infected with the Banana Bunchy Top Virus, as well as non-infected banana plants, in order to establish a disease-free buffer around a plantation. Remove all fruit from the plants within the area prior to treatment. Inject 0.04 fluid ounce (1 milliliter) of this concentrated product (undiluted) for every 2 to 3 inches of pseudostem diameter of the banana plant to be controlled. Make the injection at least one foot above the ground, except for very small plants, which can be injected vertically into the top. Any subsequent re-growth must also be destroyed. Mechanically destroy all plants and mats (or units) within a 4-foot radius around a treated mat.

For control of the Banana Bunchy Top Virus, it is critical that the grower follow a strict control program involving monitoring for diseased plants, spraying to control the aphid vector, and destruction of all infected mats (or units). An infected plant might not show symptoms of the Banana Bunchy Top Virus for as many as 125 days; therefore, it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately.

RESTRICTIONS: Do not apply more than 0.5 fluid ounce (15 milliliters) of this product per mat (or unit). Do not harvest any fruit or plant material from treated mats (or units) following injection. Do not allow livestock to consume treated plant material. Following transplant of new banana plants into treated areas, allow plants to become established for a minimum of 3 months before applying this product for weed control.

10.7 Vine Crops

LABELED CROPS: Hops; Passion fruit

TYPES OF APPLICATION: Those listed in Section 10.0

USE INSTRUCTIONS: Apply this product for weed control only when green shoots, canes or foliage are not in the spray zone.

RESTRICTIONS: Allow a minimum of 14 days between application and harvest of these vine crops.

10.8 Miscellaneous Tree Crop Crops

LABELED CROPS: Pine; Pulpal; Eucalyptus; Christmas trees; all other non-food tree crops

TYPES OF APPLICATION: Those listed in Section 10.0

PRECAUTIONS: Avoid contact of spray, drift or mist of this product with foliage or green bank 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, populair, 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 hard-to-control weeds, or those specified on separate supplemental labeling for this product, supersedes rates listed in the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” of this label. Additional information on hard-to-control weeds can be found on Fact Sheets published for this product.

## 11.1 Alfalfa, Clover, and Other Forage Legumes

**LABELED CROPS:** Alfalfa; Clover; Kenaf; Kudzu; Lespedeza; Leucaena; Lupin; Sainfoin; Trefolii; Velvet bean; Vetch (all types)

**TYPES OF APPLICATION:** Preplant; At-Planting; Preemergence; Spot Treatment; Wiper Applicator; Preharvest (except kenaf and leucaena); Stand Removal

For directions for use with 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 can 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. 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 an established stand of any forage legume 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. Preharvest application on alfalfa 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 alfalfa grown for seed.

**RESTRICTIONS:** Make only one application to an existing crop stand per year. Remove domestic livestock before application. 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:** Postemergence Weed Control in Dormant CRP Grasses, Wiper Applicator; Renovation (rotating out of CRP); Site Preparation

**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 wiper applicator to control tall weeds, or as a broadcast application or spot treatment to dormant CRP grasses. For selective weed control using broadcast application equipment, apply 5 to 8 fluid ounces of this product per acre in early-spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late-fall application may be made after desirable perennial grasses have reached dormancy.

**PRECAUTIONS:** Some stunting of CRP perennial grasses will occur if broadcast application is made when plants are not dormant.

**RESTRICTIONS:** Do not apply more than 2 quarts of this product per acre per year onto CRP land. No waiting period is required between application and grazing or harvesting for feed.

**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.

## 11.3 Grass Seed and Sod Production

**LABELED CROPS:** Any grass (Gramineae family), except Corn, Sorghum, Sugarcane and those listed in the “CEREAL AND GRASS 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

**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. This product may be used to destroy undesirable grass vegetation when production fields are converted to alternative species or crops. Do not disturb soil or underground plant parts before application and 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.

Apply before, during or after planting, or for renovation purposes. 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 intercropping of the herbicide spray. For maximum control of existing vegetation, delay planting until determining if any re-growth of underground plant parts will occur. Where repeat applications are necessary, sufficient re-emergence must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall application provides enhanced 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 hard-to-kill grass species.

**RESTRICTIONS:** If application rate is 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.

**Shielded Sprayer**

**USE INSTRUCTIONS:** Apply 22 to 64 fluid ounces of this product in 10 to 20 gallons of water per acre using a shielded sprayer to control weeds between grass seed rows. Uniform planting in straight rows will aid shielded sprayer application. Enhanced results can be 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.

**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.

**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 grasses 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:** Use low-pressure nozzles or drop nozzles designed to target the application over a narrow band. Set nozzle height to establish the desired row spacing and apply 11 to 22 fluid ounces of this product per acre. Enhanced results can be obtained when application is made before ryegrass reaches 6 inches in height. Use a higher application rate within this range when ryegrass is greater than 6 inches in height.

**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:** Bahiagrass; Bermudagrass; Bluegrass; Brome; Fescue; Guinea grass; Kikuyu grass; Orchardgrass; Pangola grass; Ryegrass; Timothy; Wheatgrass and any grass (Gramineae family), except Corn, Sorghum, Sugarcane and those listed in the “CEREAL AND GRASS CROPS” section of this label

**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 from the area prior to application and wait a minimum of 7 days after application before grazing livestock or harvesting for feed. 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. Application may be repeated on the same area at 30-day intervals.

Postemergence Weed Control (Broadcast Application)

USE INSTRUCTIONS: This product may be applied in pastures to suppress competitive growth and seed production of annual weeds and other undesirable vegetation. For selective weed control using broadcast application equipment, apply 8 to 11 fluid ounces of this product per acre in early-spring before desirable perennial grasses break dormancy and initiate green growth. Late-fall application may be made after desirable perennial grasses have reached dormancy.

PRECAUTIONS: Some stunting of perennial grasses will occur if broadcast application is made when plants are not dormant. Higher application rates may be used for hard-to-control weeds; however, higher rates will cause stand reduction.

RESTRICTIONS: No waiting period is required between application and grazing or harvesting for feed. Do not apply more than 2 quarts of this product per acre per year onto pastures grasses except for renovation use as described on this label. If replanting is needed due to severe stand reduction, wait a minimum of 30 days after application before planting any crop not listed on this label.

11.5 Rangeland

TYPES OF APPLICATION: Postemergence

USE INSTRUCTIONS: This product will control or suppress many annual weeds growing on 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 visible seeds. Delay grazing of the area after application of this product 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 on rangeland. Apply when most mature brome plants are in early flower and before the plants, including seedheads, turn color. Allow for secondary weed flushes to occur after spring rains further deplete the seed reserve and encourages perennial grass conversion on weedy sites. Apply this product in the fall in areas where spring moisture is normally limited and fall germination allows for good weed growth and weed seed deactivation.

For control of mesadhead, 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 after a burn. Repeat applications in subsequent years are necessary to eliminate the seedbank before re-establishing desirable perennial grasses in mesadhead-dominated rangeland.

RESTRICTIONS: Do not apply more than 2 quarts of this product per acre per year on rangeland. Do not add ammonium sulfate to the spray mixture 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 THE LEAF, STEM, POD, SEED, BUD, FLOWER, 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 in the same crops listed in the “ANNUAL AND PERENNIAL CROPS” and “PASTURE GRASSES, FORAGE LEGUMES AND RANGELAND” sections of this label, which are intended for crops that 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 through Monsanto Company. Growers using Roundup Ready technology must be authorized by Monsanto Company. Growers using Roundup Ready technology must agree to the terms and conditions of the Technology Transfer Agreement with Monsanto Company.

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 applying any product that uses this product or the top of Roundup Ready crops. 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, unless otherwise directed. Select proper nozzles and spray pressure settings to avoid spraying a fine mist. For enhanced 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, that provided, applicable to the product 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 or leaching zone to prevent drift to any vegetation is required.

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 fertilizer may 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 of products and rates not stated on the label of this product will likely cause crop injury.

NOTE: Do not mix with any herbicide which alters the rate of weed control or injury, the development of herbicide resistance, the selectivity of the product, the crop safety profile, or the timing and sequence of application.

See the “MIXING” and “APPLICATION EQUIPMENT AND TECHNIQUES” sections of this label for information on mixing tank-mix products together in the carrier by mixing small proportional quantities in advance. Monsanto Company has not tested this product with tank-mix products containing herbicides or other materials that are not specifically listed on this label or on separate supplemental labeling or Facts Sheets for this product. See the “MIXING” section of this label for more information on tank mixtures.

Unless otherwise directed, nonionic surfactant may be added to the spray solution for application to Roundup Ready crops. The addition of certain surfactants to a spray solution of this product could result in some crop responses. See the “PRODUCT INFORMATION” section of this label for more information.

Roundup Ready crops must be purchased from an authorized licensed seed supplier.

12.1 Roundup Ready Alfalfa

TYPES OF APPLICATION: Preplant, At-planting, Preemergence, Postemergence (in-crop)

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

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th>Combined total per year for all applications, including Preplant during year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.3 quarts per acre of establishment</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 newly established stands</td>
<td>4.1 quarts 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. 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.

12.1 Roundup Ready Alfalfa

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 cut to hay. For maximum control of target species, apply this product post-emergence, cut the crop to a height of 6 inches, and apply this product after harvest. For maximum control of target species, apply this product post-emergence, cut the crop to a height of 6 inches, and apply this product after harvest.
of this product. To eliminate the undesirable effects of stand gaps created by this loss of plants, make a single application 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).

### NEW STAND ESTABLISHMENT (Seeding Year)

<table>
<thead>
<tr>
<th>Application Rates</th>
<th>Prior to First Cutting</th>
<th>After First Cutting</th>
</tr>
</thead>
<tbody>
<tr>
<td>From emergence up to 4 trifoliate leaves</td>
<td>22 to 44 fluid ounces per acre</td>
<td>Up to 44 fluid ounces per acre</td>
</tr>
<tr>
<td>From 5 trifoliate leaves up to 5 days before first cutting</td>
<td>Up to 44 fluid ounces per acre</td>
<td></td>
</tr>
</tbody>
</table>

TANK MIXTURES: Up to 44 fluid ounces of this product per acre may be applied postemergence (in-crop) over the top of Roundup Ready alfalfa in the seeding year in a tank-mix with the following products after weeds have emerged, but before alfalfa growth or re-growth interferes with spray coverage of the target weeds. Ensure that the product used in the tank-mix is labeled for application postemergence (in-crop) to alfalfa. Read and follow label directions for all products in the tank mixture.

- Assure II, Poast, Poast Plus, Pursuit, Raptor, Select 2 EC, Select Max Herbicide with Inside Technology, clethodim, imazamox, imazethapyr, sethoxydim, quizalofop-p-ethyl

Pursuit or Raptor applied to seedling alfalfa could result in a temporary reduction in growth. 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.

Established Stands (Non-seedling Year) – Refer to the following table for directions and application rates for in-crop application to established stands of alfalfa (non-seedling year).

### ESTABLISHED STANDS (Non-seedling Year)

<table>
<thead>
<tr>
<th>Application Rates</th>
<th>Prior to First Cutting</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-crop application, per cutting, up to 5 days before cutting</td>
<td>Up to 44 fluid ounces per acre</td>
</tr>
</tbody>
</table>

TANK MIXTURES: Up to 44 fluid ounces of this product per acre may be applied postemergence (in-crop) over the top of Roundup Ready alfalfa in tank mixtures described below according to the growing condition of the crop. Ensure that the product used in the tank-mix is labeled for application postemergence (in-crop) to alfalfa. Read and follow label directions for all products in the tank mixture.

- Actively growing alfalfa: For control of emerged annual grasses and broadleaf weeds when alfalfa is actively growing, this product may be applied at up to 44 fluid ounces per acre in a tank mixture with the following herbicides:
  - Assure II, Poast, Poast Plus, Pursuit, Raptor, Select 2 EC, Select Max Herbicide with Inside Technology, clethodim, imazamox, imazethapyr, sethoxydim, quizalofop-p-ethyl
- 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, Kerb SC, Pursuit, Raptor, TriCon 4R, TriCon DF, imazamox, imazethapyr, metribuzin, pronamide, prosapramide

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.

### Maximum Application Rates

| Preplant, At-Planting, Preemergence applications | 44 fluid ounces per acre |
| All in-crop applications from emergence to canopy closure or prior to bolting in the spring | 44 fluid ounces per acre |

### Postemergence (in-crop)

- Apply 11 to 22 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 acceptable 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.

### 12.3 Roundup Ready Canola (Winter Varieties)

For directions for use of this product on Roundup Ready winter canola, refer to that section of this label. DO NOT combine these directions for use on Roundup Ready canola with the directions for use on TruFlex Roundup Ready canola.

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 dormancy period 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.

### Maximum Application Rates

<table>
<thead>
<tr>
<th>Applications</th>
<th>44 fluid ounces per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Preplant, At-Planting, Preemergence applications</td>
<td>44 fluid ounces per acre</td>
</tr>
<tr>
<td>All in-crop applications from emergence to canopy closure or prior to bolting in the spring</td>
<td>44 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 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. Do not include crop oil concentrate in tank mixtures of this product with Pursuit or Raptor as unsatisfactory crop injury could result. Some weeds with multiple germination times, or suppressed (stunted) weeds, or weeds that have overwintered, might need a sequential application of this product for control. The second application after some re-growth has occurred and a minimum of 60 days after the initial application of this product.

**Single Application** – Apply 16 to 22 fluid ounces of this product per acre in the fall when weeds are small and actively growing. Use a higher rate within this range when weed densities are high, when weeds have overwintered or when weeds become large and well established. Application of more than 16 fluid ounces per acre prior to the 6-leaf stage could result in reduced crop growth in the fall. Avoid spray overlaps as this could result in temporary yellowing and/or growth reduction.

**Sequential Application** – Apply 11 to 22 fluid ounces of this product per acre to 2-leaf or larger in the fall, followed by a sequential application at the same rate and at a minimum interval of 60 days, but before bolting in the spring. Sequential application works best for control of early-emerging annual weeds and winter-emerging weeds, such as daisy brome, jointed palustris and grass, and for weeds that have overwintered. This product will control or suppress most perennial weeds. For some perennial weeds, a sequential application might be needed to reduce competition with the crop.

Restrictions:
- No more than two over-the-top broadcast applications may be made from crop emergence up to the onset of bolting and the total in-crop application must not exceed 44 fluid ounces of this product per acre. Allow a minimum of 60 days between application and harvest of canola grain. No waiting period is required after application and open grazing of livestock.

### 12.4 TruFlex Roundup Ready Canola (Spring Varieties)

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

**USES:** Applications described on this label made over the top of canola that is not designated as Roundup Ready canola could cause serious crop injury and reduced yields. DO NOT combine these directions for use with those in the “Roundup Ready Canola” section of this label or with any other directions for use on canola on labeling for this or any other glyphosate-containing product. Drift of this product from an application made to TruFlex Roundup Ready canola onto adjacent fields of Roundup Ready canola could cause extensive crop injury.

**TYPES OF APPLICATION:** Preplant, At-Planting, Preemergence, Postemergence (in-crop), Postemergence (in-crop) in Hybrid Seed Production Only
10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre. Ensure that the product used is corn hybrids with Roundup Ready 2 Technology.

**Preplant, At-Planting, Preemergence**

USE INSTRUCTIONS: Up to 3 quarts of this product may be applied before, during or after planting spring varieties of Truflex Roundup Ready canola.

**Postemergence (In-crop)**

USE INSTRUCTIONS: This product may be applied postemergence (in-crop) to spring varieties of Truflex Roundup Ready canola from emergence through the first-flower stage of development. To maximize yield potential, eliminate competing weeds early.

For control of Canada thistle and morning glory, apply 44 fluid ounces of this product per acre no later than the 6-leaf stage of canola development. For 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. For control of other annual weeds, apply up to 44 fluid ounces of this product per acre no later than the 6-leaf stage or up to 22 fluid ounces after the 6-leaf stage through first-flower.

RESTRICTIONS: No more than two in-crop (over-the-top) broadcast applications may be made from crop emergence through the first-flower stage of canola development and the total in-crop applications must not exceed 44 fluid ounces of this product per acre. No more than 22 fluid ounces of this product may be applied in-crop after the 6-leaf stage.

**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. For near completion of the control of non-Glyphosate-tolerant canola pollen parent line(s) in hybrid canola seed production fields containing both Roundup Ready canola line(s) and non-Glyphosate-tolerant line(s). Sequential applications may be made for the control of non-Glyphosate-tolerant pollen parental line(s) 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.

12.5 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 apply only to use on 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, Postemergence (In-crop) for Tassel Control in Roundup Hybridization Systems Only

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

**Maximum Application Rates**

| Maximum Application Rates | Combined total per year for all applications: 5.3 quarts per acre | Total for all Preplant, At-Planting, Preemergence applications: 3.3 quarts per acre | Maximum single in-crop application rate up to 48-inch corn: 32 fluid ounces per acre | Total for all in-crop applications from emergence through harvest: 44 fluid ounces per acre | Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest: 22 fluid ounces per acre |

*See RESTRICTIONS for Preharvest application.

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) rates described in this section on other than field 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 in a tank mixture before, during or after planting field corn hybrids with Roundup Ready 2 Technology.

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

**Maximum Preharvest Application Rate**

Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest: 22 fluid ounces per acre

**Post-Harvest**

USE INSTRUCTIONS: This product may be applied for weed control after crop harvest. Higher rates might be needed 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.

Postemergence (In-crop) for Tassel Control in Roundup Hybridization Systems Only

This APPLICATION IS FOR USE ONLY IN SEED PRODUCTION OF CORN HYBRIDS USING THE ROUNDUP HYBRIDIZATION SYSTEM (RHS). DO NOT MAKE THIS APPLICATION ON CORN GROWN FOR FOOD OR FEED. The RHS designation indicates that the corn contains Monsanto proprietary gene technology that allows for tolerance only to products having the Roundup Ready Technology. For directions for use on SWEET CORN hybrids that contain Roundup Ready 2 Technology, see the “Field Corn Hybrids with Roundup Ready 2 Technology” section of this label.

**Maximum Application Rates**

| Maximum Application Rates | Combined total per year for all applications: 5.3 quarts per acre | Total for all Preplant, At-Planting, Preemergence applications: 3.3 quarts per acre | Maximum single in-crop application rate up to 48-inch sweet corn: 44 fluid ounces per acre | Total for all in-crop applications from emergence through 48-inch sweet corn: 4.1 quarts per acre |

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 hybrid corn hybrids with Roundup Ready 2 Technology could cause crop injury and reduced yields.
TANK MIXTURES: This product may be tank-mixed with the following products and applied over the top of the cotton plant at times of increasing maturity and/or yield loss.

APART AND COTTON MUST HAVE AT LEAST TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS. MAY BE MADE FROM CROP EMERGENCE THROUGH THE 4-LEAF (NODE) STAGE OF DEVELOPMENT. SEQUENTIAL LEAF Applications described in this section 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.

Salvage Treatment – 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 for salvage treatment.

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.

Restictions: Maximum quantity of this product that may be applied includes in-crop applications from cracking to layby combined is 2.5 quarts per acre per season. Allow a minimum of 7 days between application and harvest of cotton. DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT (OTHER THAN THOSE CONTAINED IN ANY TANK-MIX PRODUCT) FOR OVER-THE-TOP APPLICATION TO ROUNDUP READY COTTON.

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 crop stage, use post-directed application equipment to direct the spray towards the base of the cotton plants, avoiding contact of the herbicide spray with the leaves of the plant. To minimize contact, maintain a low spray pressure (less than 30 pounds per square inch) and place nozzles in a low position directing a horizontal spray pattern under the leaves of the cotton plant and onto the weeds in the row. For enhanced results, apply this product when weeds are small (less than 3 inches in height). See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

TANK MIXTURES: 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 the cotton. Read and follow label directions for all products in the tank mixture.

12.7 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.

<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 for all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total for all in-crop applications from cracking to layby</td>
<td>2.5 quarts per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate</td>
<td>4.4 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 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 the emergence of cotton. Read and follow label directions for all products in the tank mixture.

Caponal 4L, Command 3ME, Cotolan 4L, Cotton Pro; Dawn, Direx 4L, Dual MAGNUM, Dual II MAGNUM, Karmex OF, Proel 3.3 EC, Proel H2O; Reflex; Rowel; Sharpen Powered by Kisor; Stalwart; Staple LX; Valor SX; Warrant; Warrant Ultra; acetochlor; clomazone; diuron; flumioxazin; flumetsulam; fomesafen; metolachlor; s-metolachlor; nonflurazon; pendimethalin; prometryn; pyriproxyfen-sodium; salufenacil

Restrictions: Maximum quantity of this product that may be applied includes in-crop applications from cracking to layby combined is 2.5 quarts per acre per season. 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.

Preharvest

USE INSTRUCTIONS: Up to 44 fluid ounces of this product per acre may be applied for annual and perennial weed control prior to crop harvest after 20 percent bolt crack.

Note: This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton.

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.

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.

12.8 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.
**Maximum Application Rates**

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

**TANK MIXTURES:** This product may be tank-mixed with 2,4-D, Banvel or Clarity and applied prior to planting only.

**Use Readout and follow label directions for all products in the tank mixture.**

**Restrictions:** Allow a minimum of 7 days between application and harvest of Roundup Ready Flex cotton.

**Non-Restrictions:** Do not add additional surfactant or antioxidants 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 antioxidants containing surfactant to this product for preharvest application to Roundup Ready Flex cotton.**

**Attention:** Use 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. When applications are made in accordance with the label directions. In some cases, these factors can result in yield loss, delayed maturity and/or yield loss.

### 12.9 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.

**Maximum Application Rates**

<table>
<thead>
<tr>
<th>Combined total per year for all applications</th>
<th>5.3 quarts per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total for all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
</tr>
<tr>
<td>Total for all in-crop applications from cracking to 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.

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

**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 equipment application.

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

---

**Maximum Application Rates**

- **Total for all Preplant, At-Planting, Preemergence applications:** 3.3 quarts per acre
- **Total for all in-crop applications from cracking to flowering:** 64 fluid ounces per acre
- **Maximum Preharvest application rate:** 22 fluid ounces per acre
Post-Harvest
USE INSTRUCTIONS: This product may be applied for weed control after harvest of Roundup Ready soybean. Higher rates might be needed 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 2 YIELD SOYBEAN

TYPES OF APPLICATION: Preplant; At-Planting; Postemergence; 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>Combined total per year for all applications</th>
<th>5.3 quarts per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total for all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
<td></td>
</tr>
<tr>
<td>Total for all In-crop applications from cracking through flowering (R2 stage soybean)</td>
<td>64 fluid ounces per acre</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 2 Yield soybean.

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 soybean. Read and follow label directions for all products in the tank mixture.

Post-Harvest
USE INSTRUCTIONS: This product may be applied for weed control after harvest of Roundup Ready 2 Yield soybean. Higher rates might be needed 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 of this product must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

12.11 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>Combined total per year for all applications</th>
<th>5.3 quarts per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total for all Preplant, At-Planting, Preemergence applications</td>
<td>3.3 quarts per acre</td>
<td></td>
</tr>
<tr>
<td>Maximum single application rate from emergence to 8-leaf stage</td>
<td>32 fluid ounces per acre</td>
<td></td>
</tr>
<tr>
<td>Total for all applications made from emergence to 8-leaf stage</td>
<td>56 fluid ounces per acre</td>
<td></td>
</tr>
<tr>
<td>Maximum single application rate between 8-leaf stage and canopy closure</td>
<td>22 fluid ounces per acre</td>
<td></td>
</tr>
<tr>
<td>Total for all applications made between 8-leaf stage and canopy closure</td>
<td>44 fluid ounces per acre</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.

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, more than one application might be needed 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.

Post-Harvest
USE INSTRUCTIONS: This product may be applied for weed control after harvest of Roundup Ready 2 Yield sugarbeet 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 needed 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 of this product must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

13.0 FARMSTEAD USE

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 those 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, for hard-to-control 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 and perennial weeds, woody brush, trees and vines 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, fences, parking areas, rangeland, rights-of-way, shelterbelts, storage areas and prior to planting landscape ornaments.

TANK MIXTURES: This product may be tank-mixed with the following products, provided that the product used is labeled for these sites and uses. Refer to each individual product label for approved sites and application rates. Read and follow label directions for all products in the tank mixture.
Arsenal; Banvel; Banvel 480; Barclidean 4L; Barclidean 65WG; Clarity; Dianon 4L; Endurance; Escort XP; Karmex DF; Kfovar 1 DF; Oxt XP; Pendulum 3.3 EC; Pendulum 2G; Pendulum Aquacap, Plateau; Prinect 4L; Prinect Caliber 90; Prinect Liquid; Rotoran 50 WSP; Rotoran Flo; Ronstar G; Sahara DG; Simazine 4L; Simazine 4L Flowable; Simazine 90DF; Simazine 50 WDG; Surflan Asf; Surflan AS Specialty; Surflan Flex; Surflan Flex TED; Surflan XL 2G; Tefar XP; Vanquisch, 2,4-D; bromacil; chlorosulfuron; dicamba; diuron, imazaquin; imazapic; imazethapyr; metahalanoprop; metribuzin; nicosulfuron; nordiazine; paraquat; simazine; sulfometuron-methyl

For annual weeds, apply 22 fluid ounces of this product per acre when weeds are less than 6 inches tall, 32 fluid ounces when weeds are 6 to 12 inches tall, and 44 fluid ounces 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" and "PERENNIAL WEEDS RATE SECTION" of this label 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 before applying this product inside a greenhouse or shadehouse and 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 among farm ditches and on any other part of the farmland 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; 11 fluid ounces to suppress bermsudagrass, or 44 fluid ounces to suppress torpedograss or para grass. 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 brush and tree 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 enhanced 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 method of application of this product are: Alder, Baobab, Barringtonia, Brazilian Swinthum, Eucalyptus, Pine, Austrian, Ten Leaf Oak, Madrone, Red Oak, Giant Willow, Saltbush, Oak, Saltcedar, Oak,

PRECAUTIONS: Do not make a cut stump application when the roots of desirable woody brush or trees might be 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 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 tilling.

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 INDICATED IN THE "ANNUAL WEEDS RATE TABLE."
A glyphosate-resistant biotype has been confirmed. For additional information, refer to the “WEED RESISTANCE MANAGEMENT” section of this label. You can also visit via the Internet, www.weedscience.org or www.weedresistancemanagement.com, or contact your Monsanto Company representative.

### Perennial Weeds Rate Table

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Water Volume (gallons/acre)</th>
<th>Handheld Spray Concentration (% solution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>1 – 1.5</td>
<td>3 – 10</td>
<td>1.5%</td>
</tr>
<tr>
<td>Anise (fenugreek)</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Bermudagrass</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Blackgrass</td>
<td>1 – 1.5</td>
<td>3 – 10</td>
<td>1.5%</td>
</tr>
<tr>
<td>Bluegrass</td>
<td>1 – 1.5</td>
<td>3 – 10</td>
<td>1.5%</td>
</tr>
<tr>
<td>Bluegrass, field</td>
<td>0.4 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Buckwheat</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Chenopodium</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Cattail</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Campanula</td>
<td>2 – 3.3</td>
<td>3 – 20</td>
<td>1.5%</td>
</tr>
<tr>
<td>Cleavers, red, white1</td>
<td>2 – 3.5</td>
<td>3 – 20</td>
<td>1.5%</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 can be enhanced 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 enhanced 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 kenaf is in the germination 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.

### Annual Weeds—Tank Mixtures with 2,4-D, Dicamba or Tordon 22K

Enhanced control of certain hard-to-control weeds can be achieved by tank-mixing this product with dicamba, 2,4-D, or Tordon 22K. An appropriate rate of 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, gooshead (in a tank-mix with dicamba only), wild buckwheat (in a tank-mix with Tordon 22K only), 12 inches-cocklebur, lamb’s quarters, pigweed, Russian thistle (in a tank-mix with 2,4-D only).

At application rates listed in the "ANNUAL WEEDS RATE SECTION," this product will control the following weeds up to a maximum height or length of 8 inches: common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf. For enhanced control of these weeds, apply this product in a tank-mix with 2,4-D.

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 any application timing restrictions, soil restrictions, minimum re-cropping intervals and/or crop rotation restrictions. Use according to the more restrictive label requirements. Some crop injury may occur if dicamba or Tordon 22K is applied within 45 days of planting.

### Annual Weeds—Handheld 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 seedhead 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 enhanced results on hard-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle, apply a 1.5-percent solution of this product.

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 control of woody brush, trees and vines.

### Perennial Weeds Rate Section

Apply this product to actively growing perennial weeds. New leaf development indicates active growth. Enhanced results can be obtained when soil moisture is adequate for active weed growth. If weeds have been recently mowed or tilled, do not apply this product until plants have resumed active growth and have reached the specified stage of growth or sufficient growth has been achieved to allow for good interception of the spray solution. For enhanced control, do not mow, cut, till, burn or disturb vegetation in the application area for a minimum of 7 days after application.

For control of perennial weeds using a handheld controlled droplet applicator (CDA), apply a 20- to 30-percent solution of this product (25 to 38 fluid ounces per gallon of applicator solution) 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). When using a vehicle-mounted CDA, apply the appropriate amount of this product, as indicated in the following rate table, in 2 to 15 gallons of water per acre.

This product has no soil activity and does not control emergence of perennial weeds from seed and dormant underground roots, rhizomes or tubers present in the soil at the time of application. 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.

Application of this product in the fall must be made before a killing frost.

Unless otherwise directed, allow a minimum of 7 days after application before soil tillage.
<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Broadcast Rate (quarts/acre)</th>
<th>Volume (gallons/acre)</th>
<th>Handheld Sprayer Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dallisgrass</td>
<td>2 – 3</td>
<td>3 – 20</td>
<td>15%</td>
</tr>
<tr>
<td>Dandelion</td>
<td>2 – 3</td>
<td>3 – 20</td>
<td>15%</td>
</tr>
<tr>
<td>For control, apply 11 fluid ounces of this product in a tank-mix with an appropriate rate of 2,4-D in 3 to 10 gallons of water per acre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dock, curly</td>
<td>2 – 3</td>
<td>3 – 40</td>
<td>1.5%</td>
</tr>
<tr>
<td>For control, apply 11 to 22 fluid ounces of this product in a tank-mix with an appropriate rate of 2,4-D in 3 to 10 gallons of water per acre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dogbane, hemp</td>
<td>3</td>
<td>3 – 40</td>
<td>15%</td>
</tr>
<tr>
<td>Apply when most target plants have reached the late-bud to flower stage of development. Allows weeds to re-grow to a mature stage prior to application of this product after crop harvest or mowing. For enhanced results, apply in late-summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For suppression, apply 11 fluid ounces of this product in a tank-mix with an appropriate rate 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 hemp dogbane has occurred.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fusca (except tall)</td>
<td>2 – 3</td>
<td>3 – 20</td>
<td>15%</td>
</tr>
<tr>
<td>For control, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre when most tall fusca has reached the boot to early-seedhead 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 weed germingsgmatting after fall application or in the spring.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guinea grass</td>
<td>1.5 – 2</td>
<td>3 – 40</td>
<td>15%</td>
</tr>
<tr>
<td>Apply when most target plants have reached the 7-leaf stage of growth. Ensure thorough coverage when using a handiholder 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 needed for control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horsenettle</td>
<td>2 – 3</td>
<td>3 – 20</td>
<td>15%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late-bud to flower stage of growth. For enhanced results, apply in late-summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horseradish</td>
<td>3</td>
<td>3 – 40</td>
<td>15%</td>
</tr>
<tr>
<td>For control, apply 22 fluid ounces of this product in 3 to 10 gallons of water per acre when most plants have reached the late-bud to flower stage of growth. For enhanced results, apply 44 fluid ounces of this product in 3 to 10 gallons of water per acre up to the boot 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.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WINDMILL TRENCHES, TREES AND VINES 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>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Ash1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Aspen, quaking</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Beargrass (Beardrover)1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Beech2</td>
<td>1.5 – 3</td>
<td>1%</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</td>
<td>1%</td>
</tr>
<tr>
<td>Blackjack</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Bramble, French, Scotch</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Buckwheat, California1,2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cascaro1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Catsclaw1</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Ceanothus1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Chamise1</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%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new leaves are fully developed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dogwood1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Elderberry</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Elm1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>-</td>
<td>1.5%</td>
</tr>
<tr>
<td>For control of eucalyptus re-sprouts, apply when re-sprouts are 6 to 12 feet tall. Ensure complete coverage. Application to drought-stressed eucalyptus plants will result in less than optimum results.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida holly (Brazilian Pepperbush)3</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Gorse2</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Hasardia1,2</td>
<td>-</td>
<td>1%</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</td>
<td>1%</td>
</tr>
<tr>
<td>Honey locust</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Hickory, American1</td>
<td>1.5 – 3</td>
<td>1%</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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locust, black1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Madrone re-sprouts1,2</td>
<td>-</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply to re-sprouts that are 3 to 6 feet tall. Enhanced results can be obtained with spring or early summer applicaion.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manzanita1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Maple, red</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Apply a 1-percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 12 to 20 pounds of this product per acre.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple, sugar</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new leaves are fully developed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monkey flower1,2</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Oak, black, white1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Oak, post</td>
<td>2 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Oak, northern</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new pin leaves are fully developed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oak, southern red</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Persimmon1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Pine</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Poison ivy/Poison oak</td>
<td>2.5 – 3.3</td>
<td>1.5%</td>
</tr>
<tr>
<td>More than one application might be needed to achieve control. Application in the fall must be made before leaves lose green color.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poplar, yellow1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Redbud, eastern</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Rose, multiflora</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Make application prior to leaf deterioration by leaf-eating insects.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Russian olive1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sage, black1</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Sage, white1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sagebrush, California1</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Salmonberry</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Saltcedar</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sassafras1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sourwood1</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sumac, poison, smooth, winged1</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Sweetgum</td>
<td>1.5 – 3</td>
<td>1%</td>
</tr>
<tr>
<td>Sweetfern1</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Tallowtree, Chinese2</td>
<td>-</td>
<td>1%</td>
</tr>
<tr>
<td>Tan oak re-sprouts1,2</td>
<td>-</td>
<td>1.5%</td>
</tr>
<tr>
<td>Apply to re-sprouts that are less than 6 feet tall. Enhanced results can be obtained following application in the fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thimbleberry</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Tobacco, tree1</td>
<td>-</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Trumpetree1</td>
<td>1.5 – 2</td>
<td>1%</td>
</tr>
<tr>
<td>Vine maple1</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Virginia creeper</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Waxmyrtle, southern1</td>
<td>1.5 – 3</td>
<td>1 – 1.5%</td>
</tr>
<tr>
<td>Willow</td>
<td>2 – 3</td>
<td>1%</td>
</tr>
</tbody>
</table>

1 Partial Control
2 Thorough coverage of foliage is necessary for enhanced results.

17.0 LIMIT OF WARRANTY AND LIABILITY

Monsanto Company (“Company”) warrants that this product conforms to the chemical description on the label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall use this product only for the purposes and in accordance with the Complete Directions for Use label (“Directions”) and shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law, buyer and all users are responsible for all loss, injuries or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, crop injury or failure of this product to control weed biotypes which develop resistance to glyphosate, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, use and/or application in any manner not explicitly set forth in or inconsistent with 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.

CROP SHIELD and Design, Degree, Degree X, Harness, Monsanto and Vine Design, Roundup, Roundup PowerMAX and Design, Roundup Ready, Roundup Ready 2 Yield, Rowel, TripleFLEX, TruFlex and Warrant are registered trademarks of Monsanto Technology LLC.

All other trademarks are the property of their respective owners.

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

©2017
Packed for:
MONSANTO COMPANY
800 N. LINDBERG BLVD.
ST. LOUIS, MISSOURI, 63167 USA
101816